Ultra SCSI (FAST-20) CardBus PC Card

CB31U

User's Guide

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KSRATOC Systems, Inc.

CB31U

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1. Introduction

This User's Guide describes how to install, use, and troubleshoot the RATOC CB31U Ultra SCSI CardBus PC Card(called CB31U in this User's Guide).

1-1. Package Confirmation

Check package contents:

- CB31 Ultra SCSI CardBus PC Card
- CB31 setup CD-ROM 1, floppy disk 1
- CB31U startup guide
- High-Density 50-pin cable

NOTE

If any of these items are missing from the CB31U retail package, contact your supplier immediately.

1-2. System Requirements

- PC with a CardBus slot
- Windows 95B / Windows 95C / Windows 98 / Windows 98 SE (Second Edition) Windows Xp / Windows 2000 / Windows Me (Millennium Edition)

NOTE

If the version of your Windows 95 is 4.00.950 or 4.00.950 A, you can not use the CB31U.

2. Setup

When you use Windows 95, go to Chapter 2-1.

When you use Windows 98, go to Chapter 2-2.

When you use Windows Me, go to Chapter 2-3.

When you use Windows 2000, go to Chapter 2-4.

When you use Windows Xp, go to Chapter 2-5.

Restrictions

- At least one SCSI device must supply termination power to the SCSI bus. Read the SCSI device manual if you are not sure whether the SCSI device provides termination power. But, there is an exception. You can connect Iomega Zip drive to the CB31U, though the Zip drive can not provide termination power.
- You can not boot up system from a SCSI device connected to the CB31U. Do not install Operating System into a SCSI device connected to the CB31U because you can not boot up system from it.
- You can not format a HDD, Jaz, Zip drive connected to the CB31U with FDISK command. And you can not use software using DISK-BIOS(INT 13h). If you want to format and create partition, use our SCSI utility. **Refer to Chapter 4**.
- Do not enable virtual memory setting for a HDD, Jaz, Zip drive connected to the CB31U.
- The CB31U does not support DOS mode of Windows 98/95.
- The total length of cabling on the SCSI bus should not exceed 5ft(1.5m).
- It is not recommended that you connect more than two SCSI devices in daisy-chain.
- If your PC has only one PC card slot which is connected to a floppy disk drive, you have to copy the files in the floppy disk supplied from us onto your HDD before you set up the CB31U.
- Do not turn off your SCSI device connected to the CB31U when you have the PC in suspend(resume). If you want to have the PC in suspend mode, remove the CB31U from the PC.

Windows95

2-1. Windows 95 Setup

Here's how to get started with the CB31U and SCSI devices on Windows 95:

- 1. Check the restrictions before you install the CB31U.
- 2. Install the CB31U into the PC. Refer to Chapter 2-1-1.
- **3.** Confirm the installation. Refer to Chapter 2-1-2.
- 4. Remove the CB31U from the PC. Refer to Chapter 2-1-3.
- **5.** Connect the CB31U to the PC. Refer to Chapter 3-1.
- 6. Confirm the SCSI connection. Refer to Chapter 3-2.

2-1-1. Installing the CB31U on Windows 95

- 1. Check your Version of Windows 95.
 - a. Click My Computer with the right button.
 - **b.** Select **Properties**. You will see the **System Properties** window below.
 - c. Click the General tab.
 - d. If you can find 4.00.950 B or 4.00.950 C, you can use the CB31U.

NOTE

If the version of your Windows 95 is 4.00.950 or 4.00.950 A, you can not use the CB31U.



- 2. Check to see if your PCMCIA Controller supports CardBus PC Cards.
 - a. In the System Properties window shown above, click the Device Manager tab.
 - **b.** Double-click on the **PCMCIA socket** string and make sure there is a CardBus controller name string without "!" or "**X**" marks.



NOTE

If a CardBus controller name string does not appear, or if it appears with a "!" or "X" mark next to it, enable the CardBus controller with PC Card (PCMCIA) Wizard. For more information,

please contact your PC manufacturer.

If you find a PCIC or compatible PCMCIA controller string under the PCMCIA socket, your PC

Card slot may not be able to use CardBus PC Card or CardBus setting may be set disable in the

BIOS of your PC. If CardBus setting is disable in the BIOS, select **CardBus** from **Disable/PCIC Compatible/CardBus** option in the BIOS to set CardBus setting enable.

c. Double-click the CardBus controller name string to show the property window. If **This device is** working properly appears under the **Device status**, you can use the CB31U.

Texas Instruments PCI-1131 CardBus Controller	Prope ?
General Driver Resources	
Texas Instruments PCI-1131 CardBus Contro	ller
Device type: PCMCIA socket	
Manufacturer: Texas Instruments	
Hardware version: 001	
┌ Device status	
This device is working properly.	
_ Device usage	
Disable in this hardware profile	
Exists in all hardware profiles	
OK	Cancel

3. Grasp the CB31U by the edges with the label facing upward. Insert the CB31U into the slot and push it in until it is firmly seated. If the CB31U can not be firmly seated, check to see if the PC Card slot supports CardBus PC Cards. If the following window do not appear, the PC may not support CardBus PC Cards. For more information, contact your PC manufacturer.



- 4. When the Update Device Driver Wizard Window Appears
 - **a.** When the **Update Device Driver Wizard** window appears, insert the CD-ROM or the floppy disk included in this package and click **Next**.



b. When SCSI CardBus PC Card REX CB31 appears in the window, click Finish.

Update Device Driver Wizard	
	Windows found the following updated driver for this device: SCSI CardBus PC Card REX CB31 If you want to use this driver, click Finish. If this is not the correct driver and you want to search for a different driver manually, click Other Locations. Location of Driver
	Other Locations
	< <u>B</u> ack Finish Cancel

Windows95

- c. If a message requesting insertion of a floppy disk appears, click OK.
- **d.** When **Copying Files...** appears, you will see a message prompting you to insert the setup disk. Then type **a:**\ as floppy drive letter or type CD-ROM drive letter for the source of files and click **OK**.

Copying	Files	×
	The file 'rexcb3x.mpd' on REX SCSI PC Card Setup Disk could not be found.	ОК
	Insert REX SCSI PC Card Setup Disk into the drive selected below, and click OK.	Lancei
		<u>S</u> kip File
	Copy files from:	<u>D</u> etails
	a:\	<u>B</u> rowse

e. Wait until the PC Card (PCMCIA) icon appears on the Windows taskbar. This icon indicates that the CB31U is recognized.



f. Remove the floppy disk or the CD-ROM from the PC.

2-1-2. Confirming the Installation

- 1. Click My Computer with the right button.
- 2. Select Properties. You will see the System Properties window below.



3. Click the Device Manager tab.



- 4. Double-click SCSI Controllers in the list.
- 5. Make sure there is a SCSI CardBus PC Card REX CB31 string without "!" or "X" marks.
- 6. Double-click the SCSI CardBus PC Card REX CB31 string to show the property window.

7. Click on the General tab. If This Device is working properly appears under Device status, you installed the CB31U driver correctly.

SCSI CardBus PC Card REX CB31 Properties	? ×
General Settings Driver Resources	
SCSI CardBus PC Card REX CB31	
Device type: SCSI controllers Manufacturer: RATOC Systems,Inc. Hardware version: 003	
Device status	
Device usage	
Disable in this hardware profile	
☑ Exists in all hardware profiles	
OK	Cancel

2-1-3. Removing the CB31U

When you want to remove the CB31U from the PC, you have to follow these steps through.

1. Click the PC Card icon on the Windows taskbar.

Stop SCSI CardBus PC Card REX CB31 🛛 😓 💎 6:29 PM

- 2. You will see the message saying Stop REX CB31.
- 3. Select Stop SCSI CardBus PC Card REX CB31.
- **4.** When the window saying **You may safely remove this device** appears, you can remove the CB31U from the PC.
- 5. Press an eject button of the PC Card slot (1). Grasp the CB31U by the edge and pull it straight out of the PC Card slot (2).



2-2. Windows 98 Setup

Here's how to get started with the CB31U and SCSI devices on Windows 98:

- 1. Check the restrictions before you install the CB31U.
- 2. Install the CB31U into the PC. Refer to Chapter 2-2-1.
- 3. Confirm the installation. Refer to Chapter 2-2-2.
- 4. Remove the CB31U from the PC. Refer to Chapter 2-2-3.
- 5. Connect the CB31U to the PC. Refer to Chapter 3-1.
- 6. Confirm the SCSI connection. Refer to Chapter 3-2.

2-2-1. Installing the CB31U on Windows 98

- 1. Check to see if your PCMCIA Controller supports CardBus PC Cards.
 - a. Click My Computer with the right button.
 - b. Select Properties. You will see the System Properties window below.
 - c. Click the Device Manager tab.



d. Double-click on the **PCMCIA socket** string and make sure there is a CardBus controller name string without "!" or "**X**" marks.

NOTE

If a CardBus controller name string does not appear, or if it appears with a "!" or "X" mark next to it, enable the CardBus controller with PC Card (PCMCIA) Wizard. For more information, please contact your PC manufacturer.

- If you find a **PCIC or compatible PCMCIA controller** string under the **PCMCIA socket**, your PC Card slot may not be able to use CardBus PC Card or CardBus setting may be set disable in the BIOS of your PC. If CardBus setting is disable in the BIOS, select **CardBus** from **Disable**/**PCIC Compatible/CardBus** option in the BIOS to set CardBus setting enable.
- e. Double-click the CardBus controller name string to show the property windows. If **This device is** working properly appears under the **Device status**, you can use the CB31U.

Texas Instruments PCI-1131 CardBus Controller Prop	e ? 🗙
General Driver Resources	
Texas Instruments PCI-1131 CardBus Controller	
Device type: PCMCIA socket	
Manufacturer: Texas Instruments	
Hardware version: 001	
Device status	
This device is working properly.	
Device usage	
Disable in this hardware profile	
Exists in all hardware profiles	
ОК С	Cancel

2. Grasp the CB31U by the edges with the label facing upward. Insert the CB31U into the slot and push it in until it is firmly seated. If the CB31U can not be firmly seated, check to see if the PC Card slot supports CardBus PC Cards. If the following windows do not appear, the PC may not support CardBus PC Cards. Check to see if the PC Card slot supports CardBus PC Cards. For more information, contact your PC manufacturer.



- 3. When the Add New Hardware Wizard Window Appears
 - **a.** When the **Add New Hardware Wizard** window appears, insert the floppy disk or the CD-ROM included in this package and click **Next**.

Add New Hardware Wizard	
100 C	This wizard searches for new drivers for:
	AdvanSys PCI SCSI Host Adapter
	A device driver is a software program that makes a hardware device work.
~	
	< <u>B</u> ack Next > Cancel

- b. When the following window appears, select Search for the best driver for your device
 - (Recommended) and click Next.

Add New Hardware Wizard	
the second s	What do you want Windows to do?
	 Search for the best driver for your device. (Recommended).
	O Display a list of all the drivers in a specific location, so you can select the driver you want.
	< <u>B</u> ack Next > Cancel

c. When the following window appears, check Floppy disk drives or CD-ROM drive and click Next.

Add New Hardware Wiz	ard
	Windows will search for new drivers in its driver database on your hard drive, and in any of the following selected locations. Click Next to start the search. ✓ Eloppy disk drives CD-ROM drive Microsoft Windows Update Specify a location: Browse
	< Back Next > Cancel

d. When the following window appears, select The updated driver (Recommended)

SCSI CardBus PC Card REX CB31 and click Next.

Add New Hardware Wizard	
	Windows has found an updated driver for this device, and also some other drivers that should work with this device.
	What do you want to install? The updated driver (Recommended) SCSI CardBus PC Card REX CB31
	C <u>O</u> ne of the other drivers. <u>View List</u> < <u>B</u> ack Next > Cancel

If AdvanSys PCI SCSI Host Adapter appears instead of SCSI CardBus PC Card REX CB31 under The updated driver (Recommended), see When you select One of the other drivers.

e. When the following window appears, click Next.

Add New Hardware Wizard Windows driver file search for the device: SCSI CardBus PC Card REX CB31 Windows is now ready to install the best driver for this device. Click Back to select a different driver, or click Next to continue. Location of driver: Image: A:\REXCB31.INF Kext Kext Kext Kext Kext Kext Kext Kext<>a href="mailto:kext">Kext

f. When the following window appears, click Finish.

Add New Hardware Wizard	
	SCSI CardBus PC Card REX CB31
	Windows has finished installing the software that your new hardware device requires.
	< <u>B</u> ack Finish Cancel

g. Wait until the PC Card (PCMCIA) icon appears on the Windows taskbar. This icon indicates that





h. Remove the floppy disk from the PC.

When you select one of the other drivers.

If AdvanSys PCI SCSI Host Adapter appears instead of SCSI CardBus PC Card REX CB31 under The updated driver (Recommended) at step d. in 3., you have to select one of the other drivers.

1. Select **One of the other drivers**. Click the **View List** button.

Add New Hardware Wi	zard
	Windows has found an updated driver for this device, and also some other drivers that should work with this device.
	What do you want to install?
	Ihe updated driver (Recommended) AdvanSys PCI SCSI Host Adapter
	One of the other drivers. <u>View List</u>
	< <u>B</u> ack Next > Cancel

2. Select SCSI CardBus PC Card REX CB31.

Select Other Driver			×
Select the driver that you would like to inst	all.		
Driver Description	Driver Date	Driver Provider	Location
SCSI CardBus PC Card REX CB31	5- 8-2000	CB31RATOC	A:\REXCB31.INF
			F
		ОК	Cancel

3. SCSI CardBus PC Card REX CB31 will appear. Click Next.

	Add New Hardware Wizard					
		Windows has found an updated driver for this device, and also some other drivers that should work with this device.				
		What do you want to install?				
		C The undated driver (Becommended)				
		AdvanSys PCI SCSI Host Adapter				
	_ ~ <>>					
		<u>O</u> ne of the other drivers. <u>View List</u>				
	\Rightarrow	SCSI CardBus PC Card REX CB31				
		< <u>B</u> ack Next > Cancel				
	Add New Hardware Wiz	ard				
ng		Windows driver file search for the device:				
		SUSI CardBus PC Card REX CB31				
		Ver Version and the second				
		device. Click Back to select a different driver, or click Next				
	1 1 1 1	to continue.				
	n 🔊 📚 🛛	Location of driver:				
		A:\REXCB31.INF				
	l 🔷 🕹					
		·				
		< <u>B</u> ack Next > Cancel				
	Add New Hardware Wiz	ard				
ng						
		·				
		Windows has finished installing the software you selected				
		that your new hardware device requires.				
	🛛 🏵 🍣 🛛					
		< Back Finish Cancel				

4. You will see the following window. Click **Next**.

5. You will see the following window. Click **Finish**.

2-2-2. Confirming the Installation

- 1. Click My Computer with the right button.
- 2. Select Properties. You will see the System Properties window below.

System Properties	? ×
General Device Manager Hardware Profiles Performance	

3. Click the Device Manager tab.



- 4. Double-click SCSI Controllers in the list.
- 5. Make sure there is a SCSI CardBus PC Card REX CB31 string without "!" or "X" marks.
- 6. Double-click the SCSI CardBus PC Card REX CB31 string to show the property window.

7. Click on the **General** tab. If **This Device is working properly** appears under **Device status**, you installed the CB31U driver correctly.

SCSI CardBus PC Card REX CB31 Properties	? ×
General Settings Driver Resources	
SCSI CardBus PC Card REX CB31	
Device type: SCSI controllers Manufacturer: RATOC Systems,Inc. Hardware version: 003	
Device status	
Device usage	
Device usage	
 Exists in all hardware profiles 	
OK	Cancel

2-2-3. Removing the CB31U

When you want to remove the CB31U from the PC, you have to follow these steps through.

1. Click the PC Card icon on the Windows taskbar.



- 2. You will see the message saying Stop REX CB31.
- 3. Select Stop SCSI CardBus PC Card REX CB31.
- **4.** When the window saying **You may safely remove this device** appears, you can remove the CB31U from the PC.
- 5. Press an eject button of the PC Card slot (1). Grasp the CB31U by the edge and pull it straight out of the PC Card slot (2).



2-3. Windows Me Setup

Here's how to get started with the CB31U and SCSI devices on Windows Me:

- 1. Check the restrictions before you install the CB31U.
- 2. Install the CB31U into the PC. Refer to Chapter 2-3-1.
- **3.** Confirm the installation. Refer to Chapter 2-3-2.
- **4.** Remove the CB31U from the PC. Refer to Chapter 2-3-3.
- **5.** Connect the CB31U to the PC. Refer to Chapter 3-1.
- 6. Confirm the SCSI connection. Refer to Chapter 3-2.

2-3-1. Installing the CB31U on Windows Me

- 1. Check to see if your PCMCIA Controller supports CardBus PC Cards.
 - a. Click My Computer with the right button.
 - b. Select Properties. You will see the System Properties window below.
 - c. Click the Device Manager tab.
 - **d.** Double-click on the **PCMCIA socket** string and make sure there is a CardBus controller name string without "!" or "**X**" marks.



If you find a **PCIC or compatible PCMCIA controller** string under the **PCMCIA socket**, your PC Card slot may not be able to use CardBus PC Card or CardBus setting may be set disable in the BIOS of your PC. If CardBus setting is set disable in the BIOS, select **CardBus** from **Disable/PCIC Compatible/CardBus** option in the BIOS to set CardBus setting enable.

e. Double-click the CardBus controller name string to show the property windows. If **This device is** working properly appears under the **Device status**, you can use the CB31U.

Texas Instruments PCI-1131 CardBus Controller	Prope ? 🗙
General Driver Resources	1
Texas Instruments PCI-1131 CardBus Contro	oller
Device type: PCMCIA socket	
Manufacturer: Texas Instruments	
Hardware version: 001	
Device status	
This device is working properly	
Device usage	
Disable in this hardware profile	
Exists in all hardware profiles	
OK	Cancel

2. Grasp the CB31U by the edges with the label facing upward. Insert the CB31U into the slot and push it in until it is firmly seated. If the CB31U can not be firmly seated, check to see if the PC Card slot supports CardBus PC Cards. If the following windows do not appear, the PC may not support CardBus PC Cards. Check to see if the PC Card slot supports CardBus PC Cards. For more information, contact your PC manufacturer.



- 3. When the Add New Hardware Wizard Window Appears
 - a. When the Add New Hardware Wizard window appears, insert the floppy disk or the CD-ROM included in this package and select Automatic search for a better driver(Recommended).
 Click Next.



b. When the following window appears, click Finish.

Add New Hardware Wizard				
	SCSI CardBus PC Card REX CB31			
	Windows has finished installing the new hardware device.			
	< Back Finish Cancel			

c. Wait until the PC Card (PCMCIA) icon appears on the Windows taskbar. This icon indicates that the CB31U is recognized.



d. Remove the floppy disk from the PC.

2-3-2. Confirming the Installation

- 1. Click My Computer with the right button.
- 2. Select Properties. You will see the System Properties window below.

9	System Properties			? ×
	General Device Manager	Hardware Profiles	Performance	

3. Click the Device Manager tab.



- 4. Double-click SCSI Controllers in the list.
- 5. Make sure there is a SCSI CardBus PC Card REX CB31 string without "!" or "X" marks.
- 6. Double-click the SCSI CardBus PC Card REX CB31 string to show the property window.

7. Click on the **General** tab. If **This Device is working properly** appears under **Device status**, you installed the CB31U driver correctly.

SCSI CardBus PC Card REX CB31 Properties	? ×
General Settings Driver Resources	
SCSI CardBus PC Card REX CB31	
Device type: SCSI controllers Manufacturer: RATOC Systems,Inc. Hardware version: 003	
This device is working properly.	
Device usage Disable in this hardware profile Exists in all hardware profiles	
ОК	Cancel

2-3-3. Removing the CB31U

When you want to remove the CB31U from the PC, you have to follow these steps through.

1. Click the PC Card icon on the Windows taskbar.



- 2. You will see the message saying Stop REX CB31.
- 3. Select Stop SCSI CardBus PC Card REX CB31.
- **4.** When the window saying **You may safely remove this device** appears, you can remove the CB31U from the PC.
- 5. Press an eject button of the PC Card slot (1). Grasp the CB31U by the edge and pull it straight out of the PC Card slot (2).



2-4. Windows 2000 Setup

Here's how to get started with the CB31U and SCSI devices on Windows 2000:

- 1. Check the restrictions before you install the CB31U.
- 2. Install the CB31U into the PC. Refer to Chapter 2-4-1.
- 3. Confirm the installation. Refer to Chapter 2-4-2.
- 4. Remove the CB31U from the PC. Refer to Chapter 2-4-3.
- 5. Connect the CB31U to the PC. Refer to Chapter 3-1.
- 6. Confirm the SCSI connection. Refer to Chapter 3-2.

2-4-1. Installing the CB31U on Windows 2000

- 1. Check to see if your PCMCIA Controller supports CardBus PC Cards.
 - a. Click My Computer with the right button.
 - b. Select Properties. You will see the System Properties window below.
 - c. Click the Hardware tab.

System Properties	<u> </u>
System Properties	Y × Hardware User Profiles Advanced System: Microsoft Windows 2000 5.00.2195 Registered to: afuruich RATDC SYSTEMS,INC. 51873-335-3227867-09873 51873-395-3227867-09873
	Computer: x86 Family 5 Model 4 Stepping 4 AT/AT COMPATIBLE 97,844 KB RAM DK. Cancel <u>Sply</u>

d. Click the Device Manager button.

tem Prop	erties	?
ieneral N	etwork Identification Hardware User Profiles Advanced	
Hardwar	e luisard	
-	The Hasdware wizard helps you install, uninstall, repair, unplug, eject, and configure your hardware.	
	Hardware Wizard	
Device	Manager	
9	The Device Manager lists all the hardware devices installed on your computer. Use the Device Manager to change the properties of any device.	
	Driver Signing Device Manager	
Hardwar	e Profiles	
Ð	Handware profiles provide a way for you to set up and store different hardware configurations.	
	Hardware Brofiles	2
	OK Cancel Acc	yly.

e. Double-click on the PCMCIA adapters string and make sure there is a CardBus controller name string without "!" or "X" marks.

🖳 Device	Manager
<u>A</u> ction	⊻iew ← → 🛍 🖬 🖆 😫 🕺 😹 💹
⊡~	97-XE
	Computer
) Disk drives
	Display adapters
	DVD/CD-ROM drives
•	Floppy disk controllers
) Floppy disk drives
÷-=) IDE ATA/ATAPI controllers
E 🕄	; Keyboards
[⊕````````````````````````````````````	Mice and other pointing devices
• • • • • • • • • • • • • • • • • • •	Monitors
⊡ .∰	Network adapters
	PCMCIA adapters
	Ricoh R/RL/RB/5C478(II), R5C522 or Compatible CardBus Controller
	Necoh R/RL/RB/SC478(II), RSC522 or Compatible CardBus Controller
	Ports (COM & LPT)
	SCSI and RAID controllers
	- Sound, video and game controllers
	Suchan devices
	, bystem devices • Universal Serial Rus controllers
یں ا ا	O III YEI SAL DENAL DUS CUTU UIIEI S
1	

If you find a **Intel PCIC compatible PCMCIA controller** string under the **PCMCIA adapter**, your PC Card slot may not be able to use CardBus PC Card or CardBus setting may be set disable in the BIOS of your PC. If CardBus setting is set disable in the BIOS, select **CardBus** from **Disable/PCIC Compatible/CardBus** option in the BIOS to set CardBus setting enable.

f. Double-click the CardBus controller name string to show the property windows. If This device is working properly appears under the Device status, you can use the CB31U.

Ricoh R/RL/RB/5C478(II), R5C522 or Compatible CardBus Con 🍸 🗶						
General	General Driver Resources					
	Ricoh R/RL/RB/5C478(II), R5C522 or Compatible CardBus Controller					
	Device type:	PCMCIA adapte	ers			
	Manufacturer:	RICOH				
	Location:	Location 1 (PCI	bus 0, device 12	2, function 0)		
Devic	e status					
This	device is working pro	operly.		<u> </u>		
If you start	If you are having problems with this device, click Troubleshooter to start the troubleshooter.					
				-		
<u>Iroubleshooter</u>						
Device usage:						
Use thi	s device (enable)			•		
			ОК	Cancel		

2.Grasp the CB31U by the edges with the label facing upward. Insert the CB31U into the slot and push it in until it is firmly seated. If the CB31U can not be firmly seated, check to see if the PC Card slot supports CardBus PC Cards. If the following windows do not appear, the PC may not support CardBus PC Cards. Check to see if the PC Card slot supports CardBus PC Cards. For more information, contact your PC manufacturer.



3. You will see the screen below.If this screen will not appear, restart your PC.

Found New Hardware

Advansys SCSI Host Adapter

4. You will see the screen below.Click **Yes** to restart.

System Settings Change 🛛 🕅			
?	Windows 2000 has finished installing new devices. You must restart your computer before the new settings will take effect.		
	Do you want to restart your computer now?		
	<u>Y</u> es <u>N</u> o		

5. Click **My Computer** with right button and select **Properties**. You will see the screen below.

Click the **HardWare** tab. And click on the **Device Manager** button.

General Ne			
	twork Identification Hardware	User Profiles Advan	ced
- Hardware	Wizard		
3	The Hardware wizard helps you in unplug, eject, and configure your	nstall, uninstall, repair, hardware.	
		Hardware Wizard.	
Device M	anager		
	The Device Manager lists all the I on your computer. Use the Devic properties of any device.	hardware devices insta e Manager to change	alled the
	Driver Signing	Device Manager.	\geq
Hardware	Ptofiles		
$\overline{\mathbf{A}}$	Hardware profiles provide a way f different hardware configurations.	for you to set up and st	ore
		Hardware Profiles.	
	ОК	Cancel	Apply

6. Double-click on the SCSI and RAID controllers and find a Advansys SCSI Host Adapter string. Double-click the Advansys SCSI Host Adapter string.



- 2. Setup
 - 7. You will see the screen below. You will find **This device is working properly** under the **Device status**. If Device status is error, click the **Troubleshooting** button.

Advansys General	SCSI Host Adapt	ter Properties	? X
¢	Advansys SCSI H	lost Adapter	
	Device type:	SCSI and RAID controllers	
	Manufacturer:	Advansys	
	Location:	CardBus Slot 4 (PCI bus 65, device 0, fu	inctior
Devie This	ce status device is working p	roperly.	
If yo start	u are having problen the troubleshooter.	ns with this device, click Troubleshooter to	
		Iroubleshooter	
<u>D</u> evice	usage:		
Use th	nis device (enable)		•
		OK Ca	ancel

8. Click Driver tab. You will see the screen below. Click the Update Driver button.

Advansys	SCSI Host Adapt	ter Properties ? 🗙	
General Driver Resources			
¢	Advansys SCSI H	ost Adapter	
	Driver Provider:	Microsoft	
	Driver Date:	11/14/1999	
	Driver Version:	5.0.2183.1	
	Digital Signer:	Microsoft Windows 2000 Publisher	
To view Details the driv	v details about the d To uninstall the driv er files for this devic Driver Details	iver files loaded for this device, click Driver ver files for this device, click Uninstall. To update e, click Update Drivet.	
		DK Cancel	



12. You will see the screen below. Click Next.



13. You will see the screen below. Ignore this message and just click Yes .

Digital Signature Not Found			
٩	The Microsoft digital signature affirms that software has been tested with Windows and that the software has not been altered since it was tested.		
	The software you are about to install does not contain a Microsoft digital signature. Therefore, there is no guarantee that this software works correctly with Windows.		
	SCSI PC Card REX CB31 WIN2000		
	If you want to search for Microsoft digitally signed software, visit the Windows Update Web site at http://windowsupdate.microsoft.com to see if one is available.		
	Do you want to continue the installation?		
	Yes <u>N</u> o <u>M</u> ore Info		

14. You will see the screen below. Remove the floppy disk and click Finish.



15.Click the **Driver** tab on the SCSI PC Card REX CB31 WIN2000 Properties window. You can find a **SCSI PC Card REX CB31 WIN2000** string. After that, click **OK**.

SCSI PC C	ard REX CB31 WI	N2000 Properties	٩×
General	Driver Resource	80	
¢	SCSI PC Card REX CB31 WIN2000		
	Driver Provider:	RATOC	
	Driver Date:	Not available	
	Driver Version:	Not available	
	Digital Signer:	Not digitally signed	
To view Details the driv	v details about the d To uninstall the drive er files for this devic Driver Details	triver files loaded for this device, click Driver ver files for this device, click Uninstall. To up ce, click Update Driver.	date
		OK Car	icel

16. If you find a SCSI PC Card REX CB31 WIN2000 string under the SCSI and RAID controllers in

the Device Manager, the CB31U is recognized.



243.941

17. Wait until the **PC Card (PCMCIA)** icon appears on the Windows taskbar. This icon indicates that the CB31U is recognized.

Bur DEO

18. Remove the floppy disk from the PC.

2-4-2. Confirming the Installation

1.Click My Computer with right button and select Properties. You will see the screen below.

Click the HardWare tab. Click on the Device Manager button.

System Properties 🔹 🛛			
General Network Identification Hardware User Profiles Advanced			
Hardware Wizard			
The Hardware wizard helps you install, uninstall, repair, unplug, eject, and configure your hardware.			
Hardware Wizard			
Device Manager			
The Device Manager lists all the hardware devices installed on your computer. Use the Device Manager to change the properties of any device.			
Driver Signing			
Hardware Profiles			
Hardware profiles provide a way for you to set up and store different hardware configurations.			
Hardware Profiles			
OK Cancel Apply			

2. You will see the screen below. Double-click the SCSI PC Card REX CB31 Win2000 string.



- 2. Setup
 - **3.** You will see the screen below.Click the **General** tab.Make sure Device status is **"This device is working properly."**.

5CSI PC Ca	ard REX CB31 WIM	2000 Properti	25	? ×
General Driver Resources				
¢	SCSI PC Card RE	× CB31 WIN2000	I	
	Device type:	SCSI and RAID	controllers	
	Manufacturer:	RATOC System	s,Inc.	
	Location:	CardBus Slot 4	(PCI bus 65, dev	ice 0, functior
Device status This device is working properly. If you are having problems with this device, click Troubleshooter to start the troubleshooter. Troubleshooter.				
Use this device (enable)				
			OK	Cancel

4.Click **Driver** tab and **Driver details** button on the previous window shown at step **3.** You will see the screen below. You can find the File version. Click **OK**.

Driver File Details	<u>? ×</u>
SCSI PC Card REX CB31 WIN2000	
Driver files:	
C:\WINNT\System32\DRIVERS\REXCB3x.SYS	
Provider: RATOC Systems, Inc.	
File version: Win2K [2.9a-R04s]	
Copyright: Copyright (C) RATOC Systems, Inc.	
	OK
5.Click the Resources tab and Make sure Conflicting device list is No conflict.	SCSI PC Card REX CB31 WIN2000 Properties ? × General Driver Resources Image: SCSI PC Card REX CB31 WIN2000 Resource settings:
---	--
	Resource type Setting Imput/Output Range FE00 - FEFF Imput/Output Range FFDFFF00 - FFDFFFFF Interrupt Request 09 Setting based on: Current configuration
	Conflicting device list:

2-4-3. Removing the CB31U

When you want to remove the CB31U from the PC, you have to follow these steps through.

1. Click the PC Card icon on the Windows taskbar.



- 2. You will see the message saying Stop REX CB31.
- 3. Select Stop SCSI CardBus PC Card REX CB31.
- **4.** When the window saying **You may safely remove this device** appears, you can remove the CB31U from the PC.
- 5. Press an eject button of the PC Card slot (1). Grasp the CB31U by the edge and pull it straight out of the PC Card slot (2).



2-5. Windows Xp Setup

Here's how to get started with the CB31U and SCSI devices on Windows Xp:

- 1. Check the restrictions before you install the CB31U.
- 2. Install the CB31U into the PC. Refer to Chapter 2-5-1.
- 3. Confirm the installation. Refer to Chapter 2-5-2.
- 4. Remove the CB31U from the PC. Refer to Chapter 2-5-3.
- 5. Connect the CB31U to the PC. Refer to Chapter 3-1.
- 6. Confirm the SCSI connection. Refer to Chapter 3-2.

2-5-1. Installing the CB31U on Windows Xp

- 1. Check to see if your PCMCIA Controller supports CardBus PC Cards.
 - a. Click My Computer with the right button.
 - b. Select Properties. You will see the System Properties window below.
 - c. Click the Hardware tab.

Sustem Destars	Automatic Hatalas	Pemete
System nestore	uter Name Hardware	
	System:	
	Microsoft Wi	ndows XP
	Professional	
	Version 2002	2
-	Registered to:	
	ratoc	
	ratoc	
	55274-005-2	626732-22925
	Computer:	
	Intel Pentium	n II processor
	366 MHz	
	128 MB of R	AM

2. Setup

d. Click the **Device Manager** button.

System Re	store	Automati	c Updates	Remote
General	Computer N	lame	Hardware	Advanced
Add Hardwar	e Wizard		AN 553057 V	,
S Th	e Add Hardware	Wizard hel	ps you install hard	ware.
~				
			Add <u>H</u> ardwa	re Wizard
28 38 39-414				
Device Mana	ager			
The Th	e Device Manag	er lists all th	ne hardware devic	es installed
	7.5.5.000.0000000			
ena on	your computer. L	Jse the De ^r	vice Manager to c	hange the
energy on pro	your computer. L operties of any de	Jse the De vice.	vice Manager to c	hange the
pro pro	your computer. L perties of any de	Jse the Developed	vice Manager to c	hange the
pro	your computer. L operties of any de Driver <u>S</u> ignir	Jse the Der wice. ng (vice Manager to c	anager
Hardware Pro	your computer. L pperties of any de Driver <u>S</u> ignin	Jse the Der vice.	vice Manager to c	hange the
Hardware Pro	your computer. L perties of any de Driver <u>Sig</u> nin pfiles	Jse the Der vice.	vice Manager to c	anager
Hardware Pro	your computer. L perties of any de Driver <u>S</u> ignir ofiles rdware profiles pr erent hardware c	Jse the Der wice. ng (rovide a wa configuratio	vice Manager to c Device M ay for you to set up ns.	hange the anager
Hardware Pro	your computer. L pperties of any de Driver <u>S</u> ignin ofiles rdware profiles p ierent hardware c	Jse the Der wice. ng (rovide a wa configuratio	vice Manager to c Device M ay for you to set up ns.	anager
Hardware Pro	your computer. L pperties of any de Driver <u>S</u> ignir ofiles rdware profiles p erent hardware c	Jse the Der wice. ng (rovide a wa configuratio	vice Manager to c Device M ay for you to set up ns. Hardware	hange the anager o and store Profiles
Hardware Pro	your computer. L pperties of any de Driver <u>S</u> ignir ofiles rdware profiles p erent hardware c	Jse the Der wice. ng (rovide a wa configuratio	vice Manager to c Device M ay for you to set up ns. Hardware	hange the anager o and store <u>Profiles</u>
Hardware Pro	your computer. L perties of any de Driver <u>S</u> ignir ofiles rdware profiles p erent hardware c	Jse the Der wice. ng (rovide a wa configuratio	vice Manager to c <u>D</u> evice M ay for you to set up ns. Hardware	hange the anager o and store <u>Profiles</u>
Hardware Pro	your computer. L pperties of any de Driver <u>S</u> ignir ofiles rdware profiles p erent hardware c	Jse the Der wice. ng (rovide a wa configuratio	vice Manager to c Device M ay for you to set up ns. Hardware	hange the anager o and store <u>Profiles</u>

e. Double-click on the PCMCIA adapters string and make sure there is a CardBus controller name

string without "!" or "X" marks.



If you find a **Intel PCIC compatible PCMCIA controller** string under the PCMCIA adapter, your PC Card slot may not be able to use CardBus PC Card or CardBus setting may be set disable in the BIOS of your PC. If CardBus setting is set disable in the BIOS, select **CardBus** from **Disable/PCIC Compatible/CardBus** option in the BIOS to set CardBus setting enable.

f. Double-click the CardBus controller name string to show the property windows. If **This device is working properly** appears under the **Device status**, you can use the CB31U.

100000	Driver	Resources	8
	Texas	Instruments	PCI-1220 CardBus Controller
	Device	e type:	PCMCIA adapters
	Manufa	acturer:	Texas Instruments
	Locatio	on:	PCI bus 0, device 4, function 0
This If yo	device is u are hav the troub	working pro ving problem: lleshooter.	operly.
stan			
	usage:		Iroubleshoot

2.Grasp the CB31U by the edges with the label facing upward. Insert the CB31U into the slot and push it in until it is firmly seated. If the CB31U can not be firmly seated, check to see if the PC Card slot supports CardBus PC Cards. If the following windows do not appear, the PC may not support CardBus PC Cards. Check to see if the PC Card slot supports CardBus PC Cards. For more information, contact your PC manufacturer.



3. The driver included in Windows Xp will be installed automatically.

4. Click My Computer with right button and select Properties. You will see the screen below. Click the HardWare tab. And click on the Device Manager button.

System R	estore Autr	omatie Upo	dates	Remote
General	Computer Name	(H	ardware	Advance
۸dd Hardw	are Wizard	3342.53	81 81820 B	
S T	he Add Hardware Wizar	rd helps yo	u install hardware	9.4
~				
			Add Hardware W	/izard
Device Mai	nager			
and 1	he Device Manager lists	all the ha	rdware devices ir	nstalled
	he Device Manager lists n your computer. Use th roperties of any device	all the hai e Device N	rdware devices ir Manager to chan	nstalled ge the
	he Device Manager lists n your computer. Use th roperties of any device.	s all the har e Device N	rdware devices ir Manager to chan	nstalled ge the
	he Device Manager lists n your computer. Use th roperties of any device. Driver <u>S</u> igning	all the har e Device N	rdware devices ir Manager to chan Device Manag	nstalled ge the ger
	he Device Manager lists n your computer. Use th roperties of any device. Driver <u>S</u> igning	all the har	rdware devices ir Manager to chan Device Manag	nstalled ge the ger
ardware F	he Device Manager lists n your computer. Use th roperties of any device. Driver <u>S</u> igning 'rofiles	all the har	rdware devices ir Manager to chang Device Manag	nstalled ge the
Hardware F	he Device Manager lists n your computer. Use th roperties of any device. Driver <u>Signing</u> 'rofiles ardware profiles provide	a way for	rdware devices ir Manager to chan Device Manag	nstalled ge the ger d store
Hardware F	he Device Manager lists n your computer. Use th roperties of any device. Driver <u>Signing</u> 'rofiles ardware profiles provide ifferent hardware configu	s all the har e Device M a way for urations.	rdware devices ir Manager to chan Device Manag you to set up and	nstalled ge the ger d store
Hardware F	he Device Manager lists n your computer. Use th roperties of any device. Driver <u>Signing</u> 'rofiles ardware profiles provide ifferent hardware configu	a way for urations.	rdware devices ir Manager to chan Device Manag you to set up and Hardware Prof	nstalled ge the ger d store
Hardware F	he Device Manager lists n your computer. Use th roperties of any device. Driver <u>Signing</u> 'rofiles ardware profiles provide ifferent hardware configu	a way for urations.	rdware devices ir Manager to chan Device Manag you to set up and Hardware Prof	nstalled ge the ger d store
Hardware F	he Device Manager lists n your computer. Use th roperties of any device. Driver <u>Signing</u> 'rofiles ardware profiles provide ifferent hardware configu	all the har e Device M a way for urations.	rdware devices ir Manager to chan Device Manag you to set up and Hardware Prof	nstalled ge the ger d store

5. Double-click on the SCSI and RAID controllers and find a Advansys SCSI Host Adapter string. Double-click the Advansys SCSI Host Adapter string.



- 2. Setup
 - 6. You will see the screen below. You will find **This device is working properly** under the **Device status**. If Device status is error, click the **Troubleshooting** button.

dvansy	s SCSI I	lost Adap	oter Properties	?>
General	Driver	Resources	3	
¢	Advan	sys SCSI Ho	ost Adapter	
	Device	e type:	SCSI and RAID controllers	
	Manuf	acturer:	Advansys	
	Locatio	on:	PCI bus 129, device 0, function 0	
This If you start	device is u are hav the troub	working pro ving problem vleshooter.	operly. s with this device, click Troubleshoot to	~
			Iroubleshoot	
<u>D</u> evice	usage:			
Use th	is device	(enable)		*
			ОК (Cancel

7. Click **Driver** tab. You will see the screen below. Click the **Update Driver** button.

dvansy	s SCSI I	lost Adap	ter Properties 🤗
General	Driver	Resources	
¢	Advan	sys SCSI Ho:	st Adapter
	Driver	Provider:	Microsoft
	Driver	Date:	7/1/2001
	Driver	Version:	5.1.2600.0
	Digital	Signer:	Microsoft Windows XP Publisher
<u>D</u> riv Ugd	er Detail: ate Drive	8 To #	o view details about the driver files. o update the driver for this device.
Boll	Back Dri	ver If I	the device fails after updating the driver, roll ick to the previously installed driver.
	<u>J</u> ninstall	To	o uninstall the driver (Advanced).
			OK Cancel

	Hardware Update Wizard
8. Select Install from a list or spe- cific location and click Next.	Welcome to the Hardware Update Wizard
	This wizard helps you install software for:
	Advansys SCSI Host Adapter
	If your hardware came with an installation CD or floppy disk, insert it now.
	What do you want the wizard to do?
	Install the software automatically (Recommended) Install from a list or specific location (Advanced)
	Click Next to continue.
	< Back Next> Cancel

9. Select Don't search. I will choose the driver to install and click Next.

Haro	lware Update Wizard
Р	lease choose your search and installation options.
	○ Search for the best driver in these locations.
	Use the check boxes below to limit or expand the default search, which includes local paths and removable media. The best driver found will be installed.
	Search removable media (floppy, CD-ROM)
	Include this location in the search.
	E-¥ BIowse
\langle	Don't search. I will choose the driver to install
	Chaose this option to select the device driver from a list. Windows does not guarantee that the driver up a chaose will be the best match for up a bardware
	the affect year choose the bear material year hardnere.
	<back next=""> Cancel</back>

10. Insert the floppy disk or the CD-ROM included in this package. Click **Have Disk** button.



- 2. Setup
 - **11.** Type CD-ROM drive letter. (Type A:\, if you insert floppy disk.) and click Next.



12. Click Next.

lardware	Update	Wizard

KĘ

Select the	device o	driver you	u want to	o install for	this hardware.

t the device driver you want to install for this hardware.	
Select the manufacturer and model of your hardware device and then click Ne have a disk that contains the driver you want to install, click Have Disk.	ext. If you

lodel	
SCSI CardBus PC Card REX CB31	
	Have Dick
This driver is not digitally signed	L DATE LUSA

13. Click Continue Anyway on this screen.

1	The software you are installing for this hardware:
<u>•</u>	SCSI CardBus PC Card REX CB31
	has not passed Windows Logo testing to verify its compatibility with Windows XP. (<u>Tell me why this testing is important.</u>)
	Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.

14. You will see the screen below. Take out the floppy disk or the CD-ROM and click Finish.



15. Click the Driver tab and make sure if SCSI PC Card REX CB31 is shown. Click OK.

SCSI CardBus PC Card	REX CB31 Properties
General Driver Resour	ces
SCSI CardBus F	PC Card REX CB31
Driver Provider:	RATOC
Driver Date:	Not available
Driver Version:	Not available
Digital Signer:	Not digitally signed
Driver Details	To view details about the driver files.
Update Driver	To update the driver for this device.
Boll Back Driver	If the device fails after updating the driver, roll back to the previously installed driver.
<u>U</u> ninstall	To uninstall the driver (Advanced).
	Close Cancel

16. If you find a **SCSI PC Card REX CB31** under the **SCSI and RAID controllers** on the Device Manager, the CB31U is recognized.



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2-5-2. Confirming the Installation

 Click My Computer with right button and select Properties. You will see the screen below. Click the HardWare tab. Click on the Device Manager button.

System Restore Automatic Updates		matic Updates	Remote	
General	Compu	outer Name Hardware		Advanced
Add Hard	wara Wizard			
		N.C. 1		
X	The Add Hardy	vare Wizard	Add <u>H</u> ardware	wizard
Device M	anager			
	The Device Ma on your compu properties of ar	anager lists a ter. Use the ny device.	all the hardware device: Device Manager to cha	s installed ange the
ſ	Driver <u>S</u>	igning		nager
v Hardware	Profiles			
Hardware	Profiles Hardware profil different hardw	les provide a are configur	a way for you to set up a ations.	and store
Hardware	Profiles Hardware profil different hardw	les provide a are configur	a way for you to set up a ations. Hardware <u>P</u>	and store

2. Double click SCSI PC Card REX CB31 under SCSI and RAID Controllers.



- ? X SCSI CardBus PC Card REX CB31 Properties 3. Click the General tab. Make sure Device status says "This device Driver General Resources is working properly.". SCSI CardBus PC Card REX CB31 Driver Provider: RATOC Driver Date: Not available Driver Version: Not available Digital Signer: Not digitally signed Driver Details... To view details about the driver files. Update Driver.. To update the driver for this device. If the device fails after updating the driver, roll Roll Back Driver back to the previously installed driver. <u>U</u>ninstall To uninstall the driver (Advanced).
- 4. Click Driver tab and Driver details button. You can find the driver version. Click OK.

Close

Cancel

൙ scsi c	ardBus PC Card REX CB31
river files:	
C:¥WINDO	WS¥System32¥DRIVERS¥REXCB3x.SYS
Provider:	RATOC Systems,Inc.
Provider: File version:	RATOC Systems, Inc. Win2K [2.9a-R08s]
Provider: File version: Copyright:	RATOC Systems,Inc. Win2K [2.9a-R08s] Copyright (C) RATOC Systems,Inc.
Provider: File version: Copyright: Digital Signer:	RATOC Systems,Inc. Win2K [2.9a-R08s] Copyright (C) RATOC Systems,Inc. Not digitally signed
Provider: File version: Copyright: Digital Signer:	RATOC Systems,Inc. Win2K [2.9a-R08s] Copyright (C) RATOC Systems,Inc. Not digitally signed
Provider: File version: Copyright: Digital Signer:	RATOC Systems,Inc. Win2K [2.9a-R08s] Copyright (C) RATOC Systems,Inc. Not digitally signed

5. Click the Resources tab and Make sure No conflict is shown at Conflicting device list .	SCSI CardBus PC Card REX CB31 Properties ? × General Driver Resources SCSI CardBus PC Card REX CB31 Besource settings:
	Resource type Setting
	I/O Range FE00 - FEFF Memory Range FFEFEF00 - FFEFEFFF IRQ 11
	Setting based on:
	Use automatic settings Change Setting
	No conflicts.
	OK Cancel

2-5-3. Removing the CB31U

When you want to remove the CB31U from the PC, you have to follow these steps through.

1. Click the Safely Remove Hardware icon on the Windows taskbar.



- 2. You will see a list of hardware.
- 3. Select Safely remove SCSI CardBus PC Card REX CB31.
- 4. When the window saying **The "SCSI CardBus PC Card REX CB31" device can now be safely removed from the system** appears, you can remove the CB31U from the PC.
- 5. Press an eject button of the PC Card slot (1). Grasp the CB31U by the edge and pull it straight out of the PC Card slot (2).



3. Using SCSI devices

3-1. Connecting the SCSI device

1. Attach an external active terminator to the SCSI device, as shown below. If the SCSI device has an internal terminator and the switch, set it on state. Refer to the SCSI device manual if you are not sure how to activate termination.



- **2.** Be sure that at least one SCSI device connected to the CB31U supplies termination power to the SCSI bus. Refer to the SCSI device manual if you are not sure whether the SCSI device provides termination power.
- **3.** Be sure that each SCSI device has a unique SCSI ID, ranging from 0 to 6. The CB31U uses SCSI ID 7. You can usually change a SCSI ID with a switch on the back of the SCSI device. For more information, refer to the SCSI device's manual.



4. Connect the PCMCIA connector at the end of the SCSI cable to the CB31U, as shown below.



5. Attach the SCSI connector on the other end of the SCSI cable into a SCSI device. If you have a SCSI device with a DB 25-pin, you can order the cable. **Refer to Chapter 10**.



6. Turn on all the SCSI devices connected to the CB31U.



7. Wait until ACCESS lights of the SCSI devices are turned off.



8. Turn your PC on and insert the CB31U into your PC.



3-2. Confirming SCSI device Connection

- 1. Open Device Manager.
- 2. Make sure the SCSI device name string appears in the Device Manager.

The following Device Manager in Windows 2000 shows Iomega Zip drive is connected to the CB31U.



- 3. Double-click the SCSI device name string. The device properties window will appear.
- 4. If you can find The device is working properly under the Device status, the SCSI device is working fine. The following SCSI device properties window in Windows 2000 also shows SCSI ID No.

Target ID xx means SCSI ID No.

IOMEGA Z	P 100 SCSI Disk	Device Proper	ties	<u> ? ×</u>
General	Diok Properties 5	CSI Properties	Driver	- 1
	IOMEGA ZIP 100	SCSI Disk Devic	e	
	Device type:	Disk drives		
	Manufacturer:	(Standard disk	dives)	
	Location	Bus Number 0,	Target ID 5, LUN 0	
This is a first start is	device is working pr are having problem the troubleshooter.	operly.	e, click. Troubleshooter to]
			Troubleshooter	1
Device	usage:			
Use thi	: device (enable)			•
			OK Ca	ncel

If you have connected a HDD, CD-ROM, Removable Disk such as Jaz, Zip drive, you can also find the icon in **My Computer**.

NOTE

Never remove the CB31U while the ACCESS LED of the SCSI device is lighting on.

4. SCSI Format Utility

You can format a HDD, Jaz, MO, Zip drive, etc., with format utility named **REXFMT95.EXE**.

NOTE:

You can not format CD-R, CD-RW or DVD-RAM.

Follow these steps through to format your SCSI drive.

1. Make sure the SCSI device is connected and powered on.

2. If the device is a removable disk and a media is not inserted, insert a media.

3. Insert the floppy disk for Windows 98/95 included in this package.

4. Open My Computer and double-click the floppy disk icon.

Double-click on the **REXFMT95.EXE** file.

5. You will see the window below and select the disk you want to format. And click the Select button.

🚰 Select the Drive		×
Please Select the Disk.		(A)
HA#2,ID:0,LUN:0 (HardDis	sk) CWS ORB2-SE U	ID 0
		_
1		_
Select	Quit	

NOTE:

The drive list shows all the disks connected to USB, SCSI port besides the CB31U. Make sure the disk you have selected is the one connected to the CB31U.

6. You will see the window below. Select [Initialize/Format media] from the [Edit] menu.

File(F)	K Format	Utility Dotion(0)				×
	Create Delete	e partition(<u>C)</u> e partition(<u>D)</u>				
	Initiali: Selec	ze/Format media t other drive <u>(S)</u>	·() 0 : : 3	D11 0 LUI 12 MBute	N:0	
8		Format Ty	pe : Super FD	Format		
Partit K 00	iion No.	VolumeLabel NO NAME	FileSystem FAT16	Size(MB) 2094.4	StartCylinder 1	Enc
Please	select ope	ration.				

7. You will see the window below. Choose **format type**. If you want to do Low Level Format simultaneousely, check the **Low level format** check box. Then click **OK**.

Initialize/Format Media
Device Infomation CWS ORB2-SE U ID 0 D11 HA# : SCSI ID : 0 LUN : 0 Total disk space : 2103.12 MByte
Please choose format type.
 IBM-PC/AT_FDISK Format This is available for IBM compatible and NEC PC-98. NEC PC-98(92) Format This format is available for NEC PC-98 series. Super FD Format This format is available for removable media (e.g. MO drive)
OK Cancel

- 8. a. If you have selected IBM-PC/AT FDISK Format at the step 7., the message box saying [You should create partition next] appears. Click OK. You will see the screen shown at the step 6. and select [Create partition] from the [Edit] menu to create partition. You will see the screen below. Select [File System] from the list box and set Partition size, using the slider bar. Then, click OK.
 - b. If you have selected Super FD Format at the step 7., you will see a screen similar to the following.Select [File System] from the list box.

CreatePartition 🔀	
Device Infomation	
CWS ORB2-SE U ID 0 D11	
HA#: 2 SCSIID: 0 LUN: 0	
Total disk space : 2103.12 MByte	
Format Type : IBM-PC/AT FDISK Format	
Enter partition size in Mbytes.	
Partition 261 Cylinder	Slider bar
2047.35 MByte 100.00 %	
FileSystem FAT16/FAT12 (DOS/Window	
Partition Name	
✓ Format Drive	
VolumeLabe RATOC	
OK Cancel	

NOTE:

If you select FAT32 in [File System], MS-DOS/Windows 3.1, Windows NT can not access to the for FAT32 media.

9. To take effect, restart your computer or take the CB31U out and into the slot.

5. Installing Windows 95/98

This chapter explains how to make a startup floppy disk, how to access to a SCSI CD-ROM connected to the CB31U with the startup floppy disk. If you can accees to a SCSI CD-ROM with the startup floppy disk, you can install Windows 95/98/Me from the SCSI CD-ROM connected to the CB31U.

If you are not accustomed to DOS command, refer to Chapter 5-1.

If you are accustomed to DOS command and use Windows 95, refer to Chapter 5-2.

If you are accustomed to DOS command and use Windows 98, refer to Chapter 5-3.

5-1. Making a startup floppy disk with utility

With startup disk tool named **MKDISK.EXE**, you can make a startup floppy disk with which you can access to a SCSI CD-ROM.

NOTE:

- 1.You can not use RECOVERY CD which may be bundled in your computer with this startup disk tool named MKDISK.EXE. Contact to your PC manufacturer when you install the RECOVERY CD to install OS.
- 2. This MKDISK.EXE does not work on Windows Me. You can use this tool with Windows95, Windows 98 only.

To access to a SCSI CD-ROM connected to the CB31U with the startup floppy disk, follow these steps:

1.Insert a floppy disk.

- 2.Open My Computer and click the floppy disk icon with the right button.
- 3.Select Format.

4. You will see the screen below. Select **Full** in Format type and Check **Copy system files**.

Format - 3½ Floppy (A:)		? X
Cagacity: 1.44 Mb (3.5")	•	Start
 Format type C Quick (erase) F Eul C Copy system files only		Qose
Other options		
 No label Display summary when finished Copy system files		

- 5.Click the **Start** button.When Format finish, remove the formatted disk and insert the floppy disk for Windows 95/98 included in this package.
- 6.Double-click the floppy disk icon in My Computer and double-click MKDISK.EXE.
- 7. Hit any key to start **MKDISK.EXE**.
- 8. When the message saying "Remove the SCSI Setup Disk .Insert the formated diskkette (in system)"

appears, remove the floppy disk for Windows 98/95 included in this package and insert the formatted disk $\left(\frac{1}{2}\right)^{1/2}$

you have made at the step 4, 5.

- 9. After that, hit any key to make the startup floppy disk.
- 10.Shut down your PC and insert the CB31U connected to a SCSI CD-ROM into the PC Card slot.
- 11. Turn on the SCSI CD-ROM and insert the startup floppy disk you have just made.
- 12. Restart your PC. You can now access to your SCSI CD-ROM drive

NOTE:

If this MKDISK.EXE does not work, make a startup flopply disk on your own. Refer the next explanations in such a case.

5-2. Making a Windows 95 startup floppy disk

This section gives you information on how to make a startup flopply disk on your own when the

MKDISK.EXE does not work. With the startup floppy disk, you can access to the SCSI CD-ROM drive

connected to the CB31U and install Windows 95 from the SCSI CD-ROM drive connected to the CB31U.

Follow the steps through to make a Windows 95 startup floppy disk

1.Edit Config.sys file in a Windows 95 startup floppy disk

Edit config.sys file in a Windows 95 startup floppy disk as shown below.(This is an example)

DEVICE = HIMEM.SYS DEVICE = EMM386.EXE X = CC00-CFFF BUFFERS = 10 FILES = 20 DEVICE = CBENABLE.EXE IRQ = A MEM = CC00 DEVICE = ASPCB3x.SYS /V DEVICE = REXCD.SYS /D:MSCD001/E

NOTE: CBENABLE.EXE is CardBus Enabler. Refer to CBENABLE.EXE parameter. ASPCB3x.SYS is ASPI Manager. Refer to ASPCB3x.SYS parameter. REXCD.SYS is CD-ROM driver. Refer to REXCD.SYS parameter.

2.Make Autoexec.bat file in the Windows 95 startup floppy disk and edit it as shown below.

@echo off MSCDEX.EXE /D:MSCD001

3. a.Copy the **CBENABLE.EXE**, **ASPCB3x.SYS**, **REXCD.SYS** in the **[Dos]** folder in the CB31U floppy disk for Windows98/95 to the Windows 95 startup floppy disk.

b.Copy the EMM386.EXE and MSCDEX.EXE in your system to the Windows 95 startup floppy disk.

4.Insert the Windows95 startup floppy disk and start your PC.

The SCSI CD-ROM will be assigned and you can access to the SCSI CD-ROM drive. You can install Windows 95 from the SCSI CD-ROM drives.

5-3. Making a Windows 98 startup floppy disk

This section gives you information on how to make a startup flopply disk on your own when the

MKDISK.EXE does not work. With the startup floppy disk, you can access to the SCSI CD-ROM drive

connected to the CB31U and install Windows 98 from the SCSI CD-ROM drive connected to the CB31U.

Follow the steps through to make a Windows 98 startup floppy disk

1.Edit Config.sys file in a Windows 98 startup floppy disk

Edit config.sys file in a Windows 98 startup floppy disk as shown below.(This is an example)

[CD] DEVICE = HIMEM.SYS /testmem:off DEVICE = EMM386.EXE X = CC00-CFFF BUFFERS = 10 FILES = 20 DEVICE = CBENABLE.EXE IRQ = A MEM = CC00 DEVICE = ASPCB3x.SYS /V DEVICE = REXCD.SYS /D:MSCD001 /E

- NOTE: CBENABLE.EXE is CardBus Enabler. Refer to CBENABLE.EXE parameter. ASPCB3x.SYS is ASPI Manager. Refer to ASPCB3x.SYS parameter. REXCD.SYS is CD-ROM driver. Refer to REXCD.SYS parameter
- **2.**a.Copy the **CBENABLE.EXE**, **ASPCB3x.SYS**, **REXCD.SYS** in the **[Dos]** folder in the CB31U floppy disk for Windows98/95 to the Windows 98 startup floppy disk.

b.Copy the EMM386.EXE and MSCDEX.EXE in your system to the Windows 98 startup floppy disk.

3.Insert the Windows98 startup floppy disk and start your PC.

When you start your system, select Start computer with CD-ROM support.

The SCSI CD-ROM will be assigned and you can access to the SCSI CD-ROM drive. You can install Windows 98 from the SCSI CD-ROM drive.

------ CBENABLE.EXE parameter ------

Format: **DEVICE = <directory path>:****CBENABLE.EXE [IRQ] [IO] [MEM]**

Parameter

[IRQ]

Set IRQ number used by the CB31U. If you don't set anything to this parameter, Ah(10) is set as IRQ number. If this doesn't work, you have to set IRQ number from among IRQ numbers which any devices don't use. e.g.) IRQ = A

[**IO**]

Set IO port address used by the CB31U. If you don't set anything to this parameter, 1300h is set as IO port address. If this doesn't work, you have to set IO port address from among IO port address which any devices don't use. e.g.) IO = 1000

[MEM]

Set memory address used by the CB31U. If you don't set anything to this parameter, the CB31U try to assign memory address which any devices don't use automatically. If the CB31U failed to assign memory address, memory address is not assigned. e.g.) MEM = CC00

----- ASPCB3x.SYS parameter -----

Format: **DEVICE = <directory path>:****ASPCB3x.SYS** [/L] [/P] [/V]

Parameter

[/L]

LUN(Logical Unit No). When you set this parameter, All LUN will be searched. If you don't set anything to this parameter, only LUN=0 will be searched. When you use PD drives, CD-ROM Changers, set this /L parameter.

[/P]

Pause. When you set this /P parameter, pause the screen and you can check the result of the execution.

[/V]

View. When you set this /V parameter, the CB31U displays information including IO port address, IRQ, and the SCSI device connected to the CB31U as shown below.

Card Bus Enabler Vx.xx

IRQ = 0A IO BASEAddress = 1000 MEMORY BASE Address = CC00

Enable Success

REX Universal ASPI Manager x.xx

ASPI HOST Adapter#0 I/O Port 1000h IRQ 10 SCSI ID 7

SCSI ID #4 TYPE 5: MATSUSHITA PD-2 LF-D100 A106

----- REXCD.SYS parameter -----

REXCD.SYS is a CD-ROM driver based on ASPI manager for DOS.

```
Format: DEVICE = <directory path>: \ REXCD.SYS [/D:<Device name>][/U:1]
[/ScanID:id + id + .....] [/NoScanID: id + id + .....][/N:1][/E][/HA:0]
```

Parameter

[/D: <device name=""></device>	Set your CD-ROM device name.Use the same name written after /D: at
	MSCDEX.EXE in Autoexec.bat file.
[/U:1]	If you connect only one SCSI CD-ROM drive, be sure to set /U:1. If you don't set anything to this parameter, all SCSI CD-ROM drives will be registered after searching SCSI ID from 0 to 6.
[/ScanID:id + id +	 If you don't set anything to this parameter, REXCD.SYS search SCSI ID from 0 to 6 to find the SCSI CD-ROM connected to the CB31U. But, if you set this parameter like /ScanID:0+1,REXCD.SYS skip searching SCSI ID from 2 to 6.
[/NoScanID: id + id -] If you set this parameter like /NoScanID:5+6, REXCD.SYS skips searching SCSI ID 5 and 6.
[/N:1]	If you set this parameter, REXCD.SYS will not search Logical Unit for SCSI CD-ROM drives. REXCD.SYS finds logical drive number of CD-ROM drive, searching Logical Unit No from 0 to 7. But there are some old types of CD-ROM drives having trouble when REXCD.SYS accesses to the CD-ROM drives at the Logical Unit No except 0. In this case, set this parameter /N:1. Don't set this parameter when you use drives which need to be set for Logical Unit like CD-Changers.
[/E]	Be sure to set this parameter /E
[/HA:0]	Set Host Adapter number. If you don't set anything to this parameter, 0 is set.
[/NoPreFetch]	If you set this parameter, Prefetch command does not issued to SCSI drives. If you use CD-R drives named CD-R824SK, CD-R56S made by TEAC, be sure to set this parameter.

------ REXDISK.SYS parameter ------

REXDISK.SYS is a driver for Hard Drives/MOs based on ASPI manager for DOS. REXDISK.SYS can use only FAT12, FAT16 file system. REXDISK.SYS can not use FAT32 file system.

Format:	DEVICE = <directory path="">: \ REXDISK.SYS [/ScanID:id + id +]</directory>
	[/NoScanID: id + id +] [/E][/HA:0]
Parameter	
[/ScanID:id +	id +] If you don't set anything to this parameter, REXDISK.SYS searchs SCSI ID
	from 0 to 6 to find the Hard Drive/MO connected to the CB31U.
	But, if you set this parameter like /ScanID:0+1, REXDISK.SYS skips searching
	SCSI ID from 2 to 6.
[/NoScanID: i	d + id +] If you set this parameter like /NoScanID:5+6, REXDISK.SYS skips searching
	SCSI ID 5 and 6.
[/E]	Be sure to set this parameter /E
[/HA:0]	Set Host Adapter number. If you don't set anything to this parameter, 0 is set.

6. Installing Windows 2000

This chapter explains how to install Windows 2000 from a SCSI CD-ROM connected to the CB31U.

If you upgrade Windows 98, Windows NT to Windows 2000, refer to Chapter 6-1.

If you install a new copy of Windows 2000(Clean Install), refer to Chapter 6-2.

If you install Windows 2000, using a Windows 95/98 startup floppy disk, refer to Chapter 6-3.

6-1. Upgrade Windows 98, Windows NT to Windows 2000

Follow these steps through:

1.Connect your CD-ROM to the CB31U first. Then start Windows98/WindowsNT.

- 2.Copy [i386] directory in the Windows2000 CD-ROM to the internal HDD.
- 3.Remove the CB31U and start the [WINNT32.EXE] file in the [i386] directory copied from Windows2000 CD-ROM.

4. When setup starts, you can see two ways to install Windows2000 on the screen:

-[Upgrade to Windows2000(Recommended)]
-[Install a new copy of Windows2000(Clean Install)]
5.Select [Upgrade to Windows2000(Recommended)].
6.Install Windows 2000, following the instructions.
7.When you finish installing it, set up the CB31U if you need it.

6-2. Install a new copy of Windows 2000

Follow these steps through:

- 1.Format the HDD where you want to install Windows2000 first.
- 2.Start setup program of Windows2000 from the SCSI CD-ROM connected to the CB31U.
- 3. When setup starts, you can see two ways to install Windows2000 on the screen:

-[Upgrade to Windows2000(Recommended)]

- -[Install a new copy of Windows2000(Clean Install)]
- 4.Select [Install a new copy of Windows2000(Clean Install)].
- 5. After typing in the Product Key, click [Advanced Options] on the [Select Special Options] screen saying [To review or change the default Setup options for copying files,click (Advanced Options)].
- 6.Check [Copy all setup files from the setup CD to the hard drive] on the [Advanced Options] screen and click [OK] button.
- 7.Install Windows 2000, following the instructions.
- 8.Before you restart your system, remove the CB31U.
- 9. When you finish installing it, set up the CB31U if you need it.

6-3. Install Windows 2000, using Windows 95/98 startup disk

Follow the steps below:

- 1. Make a Windows 95/98 startup floppy disk, refering Chapter 6-2 or 6-3 and have your CD-ROM recognized by the Windows 95/98 startup floppy disk.
- 2. Format your internal HDD, if necessary.
- 3. Start [WINNT.EXE] file in the [i386] directory in the Windows2000 CD-ROM.
- 4. Install Windows 2000, following the instructions.
- 5. Before you restart your system, remove the CB31U.
- 6. When you finish installing it, set up the CB31U if you need it.

7. Linux

7-1. How to install the driver for Linux

This chapter explains how to install the CB31U driver for Linux. To install the driver, development module is required for your Linux. If you do not know how to set up development module, ask the distributor of your Linux. Following is an example how to install the driver to RedHat 6.1.

The version of [Kernel] and [PCMCIA-CS] of RedHat 6.1 is as follows.

Kernel version 2.2.12 PCMCIA-CS version 3.0.14

1.Download the file
 2.Extract the file
 3.Make driver module
 4.Install the driver module
 5.Confirm the installation

1.Download the file

Download the Linux driver for the CB31U at our web site(www.ratocsystems.com/english). You will get the file named **cb31_cb.tar.gz.** But please note this driver is β version.

2.Extract the file

Extract the cb31_cb.tar.gz ,following the procedure below.

gunzip cb31_cb.tar.gz
tar xvf cb31_cb.tar

You will get the following files below.

README-E-cb31(Setup guide)**cb31_cb.c**(Linux driver source for the CB31U)

3.Make driver module

```
(1)Copy the driver source file (cb31_cb.c)
```

Copy the driver source file named **cb31_cb.c** to the directory which includes PCMCIA Client Driver source.(The directory normally means period clients directory)

If there is the extracted driver source file named **cb31_cb.c** in the directory /root/cb31, type the command as written below.

```
# cd /usr/src/linux-2-2.12/pcmcia-cs-3.0.14/clients
# cp /root/cb31/cb31_cb.c .
```

The **cb31_cb.c** file will be copied.

(2)Edit Makefile

Add the three lines below to Makefile in the clients directory to compile cb31_cb.

```
cb31_cb.o : cb31_cb.c
$(CC) -MD -c $(XFLAGS) $(CPPFLAGS) I$(LINUX) $ <-o $@
@mkdir -p .depfiles ; mv cb31_cb.d.depfiles
```

(3)Execute Makefile

Compile cb31_cb with make command.

make cb31_cb.o

(Caution)

If you get the following error message,

Makefile:8: ../config.mk:No such file or directory make: *** Nu rule to make target '../conifg.mk'. Stop

Move up one directory and execute [make config]. You will get config.mk.

Move back to the clients directory and execute make command.

cd ..

make config

cd clients

4.Install the driver module

(1)Copy the driver module file (**cb31_cb.o**)

Copy the driver module file named **cb31_cb.o**to the directory which includes module related to PCMCIA.

#cpcb31_cb.o /lib/modules/2.2.12-32/pcmcia/.

(2)Edit PCMCIA database (/etc/pcmcia/config)

Add the five lines below to load module so that the CB31U will be recognized.

```
device "cb31_cb"
class "scsi" module "cb_enabler", "cb31_cb"
card "RATOC CardBus UltraSCSI CB31"
manfid 0xc015, 0x0100
bind "cb31_cb"
```

(3)Reboot your system for your changes to take effect.

reboot

You have now completed the installation.

5.Confirm the installation

When you insert the CB31U while pcmcia module is running, you will hear a recognition sound and see the following message.

```
scsi0: AdvanSys SCSI 3.2M : PCI Ultra 16 CDB: IO E400/F, IRQ10
scsi: 1 host
```

If PCMCIA database (/etc/pcmcia/config) is wrong or the CB31U is not recognized, you will hear a rejecting sound. In such a case, check the message which will appear in /var/log/messages.

NOTE: We tech-support only how to install the driver. We do not tech-support how to use your

SCSI devices on Linux

7-2. SCSI Configuration Utility for Linux:ascconf

This section explains the instructions to set up the CB31U SCSI Configuration Utility on RedHat 6.1. Log in as root before setting up the CB31U SCSI Configuration Utility.

* Instructions for making CB31U SCSI Configuration Utility(ascconf).

Step1: Copying the source files

Copy the following files to ascconf/src directory.

ascconf.c -- source file of ascconf

eepasc.h -- header file for eeprom

Makefile -- make file

Step2: Running makefile

Execute make and compile ascconf.c.

make ascconf

Note: You might see some warning messages. If you can build ascconf, don't worry about it.

Step3: Copying ascconf

Copy ascconf to the directory you can execute it. (for example :/usr/local/bin)

cp ascconf /usr/local/bin/.

```
7. Linux
```

* Restriction

To execute ascconf

To execute ascconf, the driver modules of the CB31U need to be loaded. If the modules are not loaded , error message shows up like below.

Not found host adapter

Sometimes, you might see following messages.

Driver module does not active.

You must connect some scsi devices, then reboot system.

At that time, connect a SCSI device and turn on the device power and reboot the system.

* Executing ascconf

[format]

ascconf <command=parameter>

[command, parameter]

-V

To show the status of current setting

-X

To show the value of EEPROM (Hex)

--disc_all=<on | off>

To set enable/disable of Disconnect for all SCSI ID

(for example)

--disc_all=on : enable Disconnect with SCSI-ID 0-7

--disc_all=off : disable Disconnect with SCSI-ID 0-7

--disc<n>=<on | off>

To set enable/disable of Disconnect for specific SCSI ID

(for example)

--disc5=off : disable Disconnect only with SCSI-ID 5

--sync_all=<20 | 10 | 5 | async>

To set Transfer rate for all SCSI ID

(for example)

--sync_all=10 : 10MB/sec for all SCSI-ID

--sync_all=async : Async. transfer for all SCSI-ID

--sync<n>=<20 | 10 | 5 | async>

To set Transfer rate for spesific SCSI ID

(for example)

--sync3=10 : 10MB/sec only for SCSI-ID 3

--sync5=async : Async.transfer only for SCSI-ID 5

[format]

ascconf -v

PCI30HX, CB31 scsi configuration utility AdvanSys ASC3050/ASC3350 found. I/O Base = 0800

View EEPROM Setting : ID-0 ID-1 ID-2 ID-3 ID-4 ID-5 ID-6 ID-7 Enable Disconnect : on off off on on on on on Synchronous transfer: 10MB 5MB 20MB 20MB 20MB Async 20MB 20MB

ascconf --disc_all=on --sync3=10

PCI30HX, CB31 scsi configuration utility AdvanSys ASC3050/ASC3350 found. I/O Base = 0800

View EEPROM Setting : ID-0 ID-1 ID-2 ID-3 ID-4 ID-5 ID-6 ID-7

Enable Disconnect : on on on on on on on on

Synchronous transfer: 10MB 5MB 20MB 10MB 20MB Async 20MB 20MB

8. Troubleshooting

8-1. Deleting the CB31U driver completely

If you use Windows 95/98/Me, refer to Chapter 8-1-1.

If you use Windows 2000, refer to Chapter 8-1-2.

If you use Windows Xp, refer to Chapter 8-1-3.

8-1-1. Deleting the CB31U driver on Windows 95/98/Me

If you failed to install the CB31U driver and want to re-install it from the start, delete it first.

Follow the steps through to delete the CB31U driver completely.

- 1. Remove the CB31U from the **Device tree**.
 - a. Click My Computer with the right button.
 - b. Select Properties.
 - c. Select the Device Manager tab.
 - d. Double-click SCSI controllers.
 - e. Select SCSI CardBus PC Card REX CB31.
 - **f.** Click the **Remove** button.
 - g. If you can not find it under SCSI controllers, check to see if there is SCSI CardBus PC Card REX CB31 under Other Devices. If you find it, select it and click the Remove button.
 - **h.** Remove the CB31U from the PC.
- 2. Remove the driver file and INF file.
 - a. Double-click the My Computer icon.
 - b. Select (Folder)Options in the View menu.
 - c. Check the Show all files.
 - d. Select Find(Search) and (For)Files or Folders on the start menu.
 - e. Type **REXCB3x.MPD** in the **Named** box.
 - **f.** Type the drive letter in which Windows 95/98/Me is installed in **Look in** box.
 - g. Click the Find Now(Search Now) button.
 - h. If REXCB3x.MPD appears, select it and press the Delete key.
 - i. Type CB31RATOCREXCB31.INF in the Named box.
 - j. Type the drive letter in which Windows 95/98/Me is installed in Look in box.
- 3. Remove the registry.
 - **a.** Select **Run** on the start menu.
 - **b.** Type **REGEDIT** in the **Open** box.
 - c. Click HKEY_LOCAL_MACHINE, Enum and PCI.
 - d. If SCSI CardBus PC Card REX CB31 appears at DeviceDesc line, select the key and press the Delete key. The example indicates that VEN_10CD&DEV_1300 is selected.
 - e. If no SCSI Card Bus PC Card REX-CB31 is listed under DeviceDesc line, finish the registry editor.

💣 Registry Editor 📃 🗆 🛛			
<u>R</u> egistry <u>E</u> dit <u>V</u> iew <u>H</u> elp			
	Name (Default) Capabilities Class ClassGUID CompatibleIDs ConfigFlags DeviceDesc Driver HardwareID HWRevision Mfg	Data (value not set) 14 00 00 00 "SCSIAdapter" "{4d36e97b-e325-11ce-bfc1-08002be10318}" "PCI\VEN_10CD&DEV_1300&REV_03,PCI\VEN_ 00 00 00 00 "SCSI CardBus PC Card REX CB31" "SCSIAdapter\0000" "PCI\VEN_10CD&DEV_1300&SUBSYS_132011S "003" "RATOC Systems,Inc."	
My Computer\HKEY_LOCAL_MACHINE\Enum\PCI\VEN_10CD&DEV_1300&SUBSYS_13201195&REV_03\001900			

4. You have now deleted the CB31U driver completely. You can now re-install the CB31U.

8-1-2. Deleting the CB31U driver on Windows 2000

If you failed to install the CB31U driver and want to re-install it from the start, delete it first.

Follow the steps through to delele the CB31U driver completely.

- 1. Remove the CB31U from the **Device tree**.
 - a. Click My Computer with the right button.
 - b. Select Properties.
 - c. Select the Hardware tab.
 - d. Click the Device Manager button.
 - e. Double-click SCSI and RAID controllers.
 - f. Select SCSI PC Card REX CB31.
 - g. Press the Delete key.
 - **h.** Remove the CB31U from the PC.
- 2. Remove the driver file and INF file.
 - a. Double-click the My Computer icon.
 - b. Select Folder Options in the Tools menu and select the View tab.
 - c. Check the Show hidden files and folders .
 - d. Select For Files or Folders of Search on the start menu.
 - e. Type **REXCB3x.SYS** in the **Named** box.
 - f. Type the drive letter in which Windows 2000 is installed in Look in box.
 - g. Click the Search Now button.
 - h. If REXCB3x.SYS appears, select it and press the Delete key.
 - i. Type **OEM*.INF** in the **Named** box and **CB31** in the **Containing text** box.
 - j. Type the drive letter in which Windows 2000 is installed in Look in box.
 - **k.** Click the **Search Now** button.
 - **1.** When appearing, open these files to see the content. If the file is related to the CB31U, select it and press the **Delete** key.

- 3. Remove the registry.
 - **a.** Select **Run** on the start menu.
 - **b.** Type **REGEDIT** in the **Open** box.
 - c. Click HKEY_LOCAL_MACHINE, SYSTEM, CurrentControlset, Services and REXCB3x.
 - d. If SYSTEM32\DRIVERS\REXCB3x.SYS appears at ImagePath line, select the key and press the Delete key.
 - e. If no SYSTEM32\DRIVERS\REXCB3x.SYS is listed under ImagePath line, finish the registry editor.

🛒 Registry Editor				
<u>R</u> egistry <u>E</u> dit <u>V</u> iew <u>F</u> avorites <u>H</u> elp				
🕀 💮 PerfOS		Name	Туре	Data
E PerfProc		(Default)	REG_SZ	(value not set)
PlugPlay		圈ErrorControl	REG_DWORD	0×00000001 (1)
E - PolicyAgent		(a)Group	REG_SZ	SCSI Miniport
E- PptpMiniport	_	(a) ImagePath	REG_EXPAND_SZ	System32\DRIVERS\REXCB3x.SYS
	e	题 Start	REG_DWORD	0×00000000 (0)
		11週Tag	REG_DWORD	0x00000021 (33)
		III Type	REG_DWORD	0×00000001 (1)
🕀 🛄 RasAcd				
🕀 💮 RasAuto				
🕀 🗐 Rasl2tp				
🗄 💮 🛄 RasMan				
🗄 🛄 Raspti				
I III RCA				
E- I Rdbss				
Enum				
Parameters				
Security				
Fin BpcLocator	_			
	•			
My Computer\HKEY_LOCAL_MACHINE\SYST	My Computer\HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\REXCB3x			

4. You have now deleted the CB31U driver completely. You can now re-install the CB31U.

8-1-3. Deleting the CB31U driver on Windows Xp

If you failed to install the CB31U driver and want to re-install it from the start, delete it first.

Follow the steps through to delele the CB31U driver completely.

- 1. Remove the CB31U from the **Device tree**.
 - a. Click My Computer with the right button.
 - b. Select Properties.
 - c. Select the Hardware tab.
 - d. Click the **Device Manager** button.
 - e. Double-click SCSI and RAID controllers.
 - f. Select SCSI PC Card REX CB31.
 - g. Press the **Delete** key.
 - **h.** Remove the CB31U from the PC.
- 2. Remove the driver file and INF file.
 - a. Double-click the My Computer icon.
 - b. Select Folder Options in the Tools menu and select the View tab.
 - c. Check the Show hidden files and folders .
 - d. Select All Files and Folders of Search on the start menu.
 - e. Type **REXCB3x.SYS** in the **All or part of the file name** box.
 - f. Select the drive letter in which Windows Xp is installed in Look in box.
 - g. Click the Search button.
 - h. If REXCB3x.SYS appears, select it and press the Delete key.
 - i. Type **OEM*.INF** in the **All Files and Folders** box and **CB31** in the **A word or phrase in the file** box.
 - **j.** Type the drive letter in which Windows Xp is installed in **Look in** box.
 - **k.** Click the **Search Now** button.
 - **I.** When appearing, open these files to see the content. If the file is related to the CB31U, select it and press the **Delete** key.

- 3. Remove the registry.
 - **a.** Select **Run** on the start menu.
 - **b.** Type **REGEDIT** in the **Open** box.
 - c. Click HKEY_LOCAL_MACHINE, SYSTEM, CurrentControlset, Services and REXCB3x.
 - d. If SYSTEM32\DRIVERS\REXCB3x.SYS appears at ImagePath line, select the key and press the Delete key.
 - e. If no SYSTEM32\DRIVERS\REXCB3x.SYS is listed under ImagePath line, finish the registry editor.
- 4. You have now deleted the CB31U driver completely. You can now re-install the CB31U.

🛒 Registry Editor			- DX
Eile Edit View Favorites Help			
RDSessMgr redbook redbook RemoteAcces RemoteRegist RetroLaunche Retrospect Hr REXCB32 REXCB3X REXCB3X REXCB8X	Name (Default) ErrorControl Group MagePath Start Tag W Type	Type REG_SZ REG_DWORD REG_SZ REG_EXPAND_SZ REG_DWORD REG_DWORD REG_DWORD	Data (value not set) 0x00000001 (1) SCSI Miniport System32¥DRIVERS¥REXCB3x.SYS 0x00000000 (0) 0x000000022 (34) 0x00000001 (1)
RpcLocator RpcSs RSEHCDCB RSVP SamSs sbp2port SCardDrv Schedule SCSJuty	<		>
My Computer¥HKEY LOCAL MACHINE¥SYSTEM	1¥CurrentControlSet¥	5ervices¥REXCB3x	

8-2. Updating the CB31U driver for Windows95/98/Me

- 1. Download the updated driver from the RATOC web site.(http://www.ratocsystems.com/english/)
- 2. Make an updated support software floppy disk.
 - a. Download CB31U_xx.exe (tentative name) into an empty folder on the Hard disk drive.
 - **b.** Double-click the **CB31U_xx.exe** icon.
 - c. Be sure that multiple files are extracted.
 - $\textbf{d.} \quad \text{Delete } \textbf{CB31U}_\textbf{xx.exe} \text{ from the folder.}$
 - e. Make sure that the size of the folder is less than 1.44 MB.
 - **f.** Get ready for an empty 1.44 floppy disk.
 - g. Select all files in the folder, then copy them to the floppy disk.
- 3. Update the driver.
 - a. Click My Computer with the right button and select Properties.
 - **b.** Click the **Device Manager** tab.
 - c. Double-click SCSI Controllers in the list.
 - d. Check to see that SCSI CardBus PC Card REX CB31 appears in the list.

System Properties ? 🗙
General Device Manager Hardware Profiles Performance
• View devices by type • View devices by connection
Computer CDROM CDROM CDROM CDROM CDisk drives Display adapters Floppy disk controllers Hard disk controllers Hard disk controllers Monitors Mouse Network adapters CMONA adapters POMCIA socket POMCIA socket POTS (COM & LPT) SCSI controllers ScSI controllers System devices Lucion Lecture line
Properties Refresh Remove Print
OK Cancel

- e. Click on the **Properties** button, then select the **Driver** tab.
- **f.** Check the date before updating the driver.
- g. Click on the Update Driver... button.

SCSI CardBus PC Card REX CB31 Properties ? 🗙
General Settings Driver Resources
SCSI CardBus PC Card REX CB31
Provider: CB31RATOC Date: 2-19-1998
To view details about the driver files loaded for this device, click Driver File Details. To update the driver files for this device, click Update Driver.
Driver File Details
OK Cancel

If your Windows is Windows 95, follow **4. To update the driver for Windows 95** procedure. If your Windows is Windows 98, follow **4. To update the driver for Windows 98** procedure. If your Windows is Windows Me, follow **4. To update the driver for Windows Me** procedure. If your Windows is Windows 2000, refer to the step 8 in Chapter 2-4-2.

- 4. To update the driver for Windows 95.
 - a. When the Update Device Driver Wizard window appears, insert the floppy disk made in the step
 2. Make an updated support software floppy disk into the PC and select Yes. Then click Next.

Update Device Driver Wizard		
	This wizard searches your local drives, network, and Internet locations for updated drivers for: SCSI CardBus PC Card REX CB31 If you have a disk or CD-ROM that contains updated drivers for this device, insert it now. It is recommended that you let Windows search for an updated driver. To do this, click Next to continue. Do you want Windows to search for the driver? © Yes [Recommended] © No, select driver from list	
	< Back Next > Cancel	

b. When the following window appears, click **Finish**.

Update Device Driver Wizard		
	Windows found the following updated driver for this device: SCSI CardBus PC Card REX CB31	
	If you want to use this driver, click Finish. If this is not the correct driver and you want to search for a different driver manually, click Other Locations. Location of Driver	
~	Other Locations	
	< <u>B</u> ack (Finish) Cancel	

- c. If a message requesting insertion of a floppy disk appears, click OK.
- **d.** When **Copying Files...** appears, you will see a message prompting you to insert the disk that is already in the floppy drive. Type **a**:\ for the source of files and click **OK**.

Copying	Files	×
_	The file 'rexcb3x.mpd' on REX SCSI PC Card Setup Disk could not be found. Insert REX SCSI PC Card Setup Disk into the	OK Cancel
	drive selected below, and click OK.	
		<u>S</u> kip File
	Copy files from:	<u>D</u> etails
	a:\	<u>B</u> rowse

e. You have finished updating the driver. Remove the floppy disk from the PC.

- 4. To update the driver for **Windows 98**.
 - a. When the Update Device Driver Wizard window appears, click Next.

Update Device Driver Wizard		
	This wizard searches for updated drivers for:	
	SCSI CardBus PC Card REX CB31	
	A device driver is a software program that makes a hardware device work.	
	Upgrading to a newer version of a device driver may improve the performance of your hardware device or add functionality.	
	< Back Next > Cancel	

b. When the following window appears, select **Search for a better driver than the one your device is using now.(Recommeded)** and click **Next**.

Update Device Driver Wizard			
	 What do you want Windows to do? Search for a better driver than the one your device is using now. (Recommended) Display a list of all the drivers in a specific location, so you can select the driver you want. 		
	< <u>B</u> ack Next > Cancel		

c. When the following window appears, check Floppy disk drives and insert the floppy disk made in the step 2. Make an updated support software floppy disk into the PC and click Next.

Update Device Driver Wizard		
	Windows will search for updated drivers in its driver database on your hard drive, and in any of the following selected locations. Click Next to start the search. Eloppy disk drives CD-ROM drive Microsoft Windows Update Specify a location: D:WIN98 Browse	
	< <u>B</u> ack Next > Cancel	

d. When the following window appears, check The updated driver (Recommended) SCSI
 CardBus PC Card REX CB31 and click Next. If AdvanSys PCI SCSI appears, check
 One of the other drivers.

Update Device Driver Wizard		
	Windows has found an updated driver for this device, and also some other drivers that should work with this device.	
	What do you want to install?	
2	 The updated driver (Recommended) SCSI CardBus PC Card REX CB31 	
	O <u>O</u> ne of the other drivers. <u>V</u> iew List	
	< <u>B</u> ack Next > Cancel	

e. When the following window appears, click Next.



f. When the following window appears, click **Finish**. You have finished updating the driver.



g. Remove the support floppy disk from the PC.

- 4. To update the driver for **Windows Me**.
 - a. When the **Update Device Driver Wizard** window appears, select **Specify the location of the driver** (**Advanced**) and click **Next**.

Update Device Driver V	√izard
	This wizard searches for updated drivers for: SCSI CardBus PC Card REX CB31 Windows can search for and install an updated driver to replace the one currently being used by your hardware. Or, you can specify the location of another driver. What would you like to do? Automatic search for a better driver (Recommended) Specify the location of the driver (Advanced)
	< Back Next > Cancel

b. When the following window appears, select Search for a better driver than the one your device is using now.(Recommended) and check Specify a location. Insert the floppy disk made in the step 2. Make an updated support software floppy disk into the PC and click Next.

Update Device Driver W	fizard
	 Windows will now search for updated drivers in its driver database and in any of the following locations. Search for a better driver than the one your device is using now. (Recommended) Removable Media (Floppy, CD-ROM) ✓ Specify a location: ✓ Browse Display a list of all the drivers in a specific location, so you can select the driver you want.
	< <u>B</u> ack Next > Cancel

c. When the following window appears, select The updated driver(Recommeded) and click Next.



d. When the following window appears, click Next.

Update Device Driver Wizard		
-	Windows driver file search for the device:	
	SCSI CardBus PC Card REX CB31	
	Windows is now ready to install the best driver for this device. Click Back to select a different driver, or click Next to continue.	
	A NEXCESTINF	
Ť		
	< <u>B</u> ack Next > Cancel	

e. When the following window appears, click **Finish**. You have finished updating the driver.

Update Device Driver Wiz	ard
	SCSI CardBus PC Card REX CB31 Windows has finished installing an updated driver for your hardware device.
	< Back Finish Cancel

f. Remove the support floppy disk from the PC.

- 5. Verify the driver is updated.
 - a. In the SCSI CardBus PC Card REX CB31 properties window, click the Driver tab.
 - **b.** Make sure the date is later than the date you checked in the step 3-f before.
 - c. Click the Driver File Details... button.

SCSI CardBus PC Card REX CB31 Properties
General Settings Driver Resources
SCSI CardBus PC Card REX CB31
Provider: CB31RATOC Date: 4-7-1998
To view details about the driver files loaded for this device, click Driver File Details. To update the driver files for this device, click Update Driver.
Driver File Details
OK Cancel

d. Check the **File version** of the CB31U driver. You may need to know this version when you want to have a tech-support.

Driv	ver File De	tails
Dr	iver files:	
	C:WIND	DWS\SYSTEM\IDSUBSYS\REXCB31.MPD DWS\SYSTEM\VMM32\IDS.vxd
	Provider:	RATOC System Inc.
<	File version:	2S91-R03
	Copyright:	(C) Advanced System Products, Inc. 1996
		OK

8-3. If your laptop is made by TOSHIBA

I can use 16-bit PC Card with my laptop made by TOSHIBA, but I can not get a CardBus PC Card up and running.

- 1. Shut down your laptop.
- 2. Start your computer.
- 3. Press the ESC key at boot time.
- 4. When Check system. Then press [F1] key is displayed, press the F1 key.
- 5. When BIOS-SystemSetup(1/2) is displayed, select CardBus/16-bit under PC Card Controller Mode.
- 6. Press the End key to restart your system.

8-4. If you use FUJITSU MO(M2512A, M2513A)

System locks up when I connect old model MO of which drive engine is M2512A, M2513A

You need to install our SCSI configuration utility and change transfer rate with it.

If you are using Windows 95/98/Me, refer to Chapter 9-4-1 and set transfer rate to 10MB/sec.

If you are using Windows 2000, refer to Chapter 9-4-2 and set transfer rate to 10MB/sec.

8-4-1. SCSI Configuration Utility for Windows 95/98/Me

The CD-ROM which comes with the CB31U includes a SCSI configuration utility. This may be required for SCSI devices to change configuration. Before starting this utility, close all other programs running.

Installation of SCSI Configuration Utility

- 1. Insert the CD-ROM into the PC.
- 2. Double-click the My Computer icon and the Floppy disk icon.
- 3. Double-click the Win9x folder and open SCSIUT folder.
- 3. Double-click the **Setup.exe** icon.
- 4. Follow the instruction in the window.

Starting SCSI Configuration Utility

- 1. Turn off the SCSI device connected to the CB31U.
- 2. Click the Start button and select Programs.
- 3. Select REXSCSI UTILITY.
- 4. Select the SCSI Configuration item.
- 5. Select REX-CB31 in the Please Select Card list and click OK.

SCSI Configuration Utility	×
Please Sel	ect
REX-CB31	_
	_
ОК	End

SCSI Configuration windows will appear. If you connect FUJITSU MO(M2512A, M2513A), select 10MB/sec.at Translation. If you connect the asynchronous device, select Async. Then click OK.

For more information, refer to the explanation in the next page.

7. When the following window appears, click **OK** to restart the computer.

SCSI Configuration Utility	×
You must restart your co to take effect. Would you like to restart right now?	nputer for the changes your computer
OK	Cancel

SCSI Configuration Utility Window

SI Configuration PCI Burst Mode	Parity	REX-CB31
C Enable C Disable	C Enable C Disab	Host SCSI ID 7
Disconnect 다 ID 0 다 ID 1 다 ID 2 다 ID 3 다 ID 4 다 ID 5 다 ID 6 다 ID	Command Queuin 3 Queuing ID F IE 7 F IE	00 FID1 FID2 FID3 04 FID5 FID6 FID7
Translation ID 0 10MB/s T ID 1 20 ID 4 20MB/s T ID 5 20	IMB/s ID 2 20MB	B/s • ID 3 20MB/s • B/s • ID 7 20MB/s •
BIOS TargetControl	StartUnitCo	
	0.7 ⊠ ID 4	
Removable Media Support CI C Enable C Disable) Bootability[Dos/V] 9 Enable @ Disable	C TERM_ON
StartUp Delay 10	¥.	C TERM_OFF
C:12.00 / P:11.00	Default	OK Cancel

[PCI Burst Mode]

Default is **Enable**. If the PC does not support PCI Burst Mode, check **Disable**.

[Parity]

Default is **Enable**. If you connect the device which does not have parity check function, check **Disable**.

[Host SCSI ID]

SCSI ID No. for the CB31U. Default is **7**. If you connect the device which can be not assigned other than 7, change the ID.

[Disconnect]

Default is **ON** (checked) at all IDs. In case of **ON**, the device is disconnected from SCSI bus temporarily. While the device is disconnected, the SCSI PC Card can run other functions on the SCSI bus efficiently.

[Command Queuing]

Default is OFF. If the queuing is required, check Queuing ID and enable Disconnect function.

[Translation]

Default is **20MB/s**. Select the transfer rate by trying the choices shown until you find one that is successful. If you connect FUJITSU MO(M2512A, M2513A), select **10MB/sec**.

If you connect the asynchronous device, select Async.

8-4-2. SCSI Configuration Utility for Windows 2000/Xp

The CD-ROM which comes with the CB31U includes a SCSI configuration utility. This may be required for SCSI devices to change configuration. Before starting this utility, close all other programs running.

Installation of SCSI Configuration Utility

- 1. Insert the CD-ROM which comes with the CB31U into the PC.
- 2. Double-click the My Computer icon and the CD-ROM icon.
- 3. Double-click the Win2k folder and open SCSIUT folder.
- 3. Double-click the **Setup.exe** icon.
- 4. Follow the instruction in the window.

Starting SCSI Configuration Utility

- 1. Turn off the SCSI device connected to the CB31U.
- 2. Click the Start button and select Programs.
- 3. Select REXSCSI.
- 4. Select the REXSCSI Configuration Utility item.
- 5. Select **REXCB3x** in the list and click **OK**.

5CSI Configuration Utili	ty	x
Please Sele	ct Card	
REXCB3x #0		
,		
ОК	End	

SCSI Configuration windows will appear. If you connect FUJITSU MO(M2512A, M2513A), select 10MB/sec.at Translation. If you connect the asynchronous device, select Async. Then click OK.

For more information, refer to the explanation in the next page.

7. When the following window appears, click **OK** to restart the computer.

SESI Configuration Utility	×
You must restart your computer for the changes to take effect. Would you like to restart your computer right now?	
DK Cancel	

SCSI Configuration Utility Window

SCSI Configuration
Resource
PCI Burst Mode Parity ● Enable ● Disable ● Enable ● Disable
Disconnect Command Queuing ID 0 ID 1 ID 1 ID 2 ID 3 Queuing ID ID 0 ID 1 ID 2 ID 3 ID 4 ID 5 ID 6 ID 7 ID 4 ID 5 ID 6 ID 7
Translation ID 0 10MB/s • ID 1 20MB/s • ID 2 20MB/s • ID 3 20MB/s • ID 4 20MB/s • ID 5 20MB/s • ID 6 20MB/s • ID 7 20MB/s •
BIOS TargetControl StartUnitCommand ID 0 ID 1 ID 1 ID 2 ID 103 ID 0 ID 1 ID 1 ID 2 ID 103 ID 0 ID 1 ID 1 ID 10 2 ID 103 ID 0 ID 1 ID 100 ID 100 ID 0 ID 1 ID 100 ID 100 ID 0 ID 100
Removable Media Support CD Bootability(Dos/V) TermMode C Enable Disable C Enable TERM_ON
StartUp Delay 10 StartUp Delay TERM_OFF C:12.00 / P:11.00 Default OK Cancel

[PCI Burst Mode]

Default is Enable. If the PC does not support PCI Burst Mode, check the Disable button.

[Parity]

Default is **Enable**. If you connect the device which does not have parity check function, check the **Disable** button.

[Host SCSI ID]

SCSI ID No. for the CB31U. Default is **7**. If you connect the device which can be not assigned other than 7, change the ID.

[Disconnect]

Default is **ON** (checked) at all IDs. In case of **ON**, the device is disconnected from SCSI bus temporarily. While the device is disconnected, the SCSI PC Card can run other functions on the SCSI bus efficiently.

[Command Queuing]

Default is ON (checked). If the queuing is required, check Queuing ID and enable Disconnect function.

[Translation]

Default is **20MB/s**. Select the transfer rate by trying the choices shown until you find one that is successful. If you connect FUJITSU MO(M2512A, M2513A), select **10MB/sec**.

If you connect the asynchronous device, select Async.

8-5. ? PCMCIA Card Services appears

There is "? PCMCIA Card Services" appears under Other devices in Device Manager.

This is not error.

If PC Cards which are not CardBus compatible are inserted, **? PC Card Services** appears under **Other devices**. If it is removed, you cannot use PC Cards.Never remove it.

8-6. The CB31U is registered as PCI Bridge

The CB31U is registered as PCI Bridge in Other devices in Device Manager window.

I have not installed the CB31U driver yet.

Remove the PCI Bridge and restart your PC. Hardware wizard will appear. Install the CB31U driver, refering to Chapter 2.

8-7. The CB31U is registered as PCI SCSI BUS Controller

The CB31U is registered as PCI SCSI BUS Controller in Other devices in Device Manager window. I have not installed the CB31U driver yet.

Select the PCI SCSI BUS Controller and update the CB31U driver, refering Chapter 9-2.

8-8.When I try to capture image, I get an error on Windows 98

When I try to capture image with scanner software, I get an error saying Scanner is not ready. But, the SCSI Scanner is recognized in the Device Manager.

If the same SCSI scanner names coexist in the Scanners and Cameras in the Control Panel.

Delete the same SCSI scanner names until only one SCSI scanner name is present there.

8-9. Unknown Device Window appears

When I connect a SCSI Scanner to the CB31U and start PC, the Add New Hardware Wizard saying [This wizard searches for new drives for Unknown Device] appears and I do not know what to do.



If Unknow Device means your SCSI Scanner. So, you need to install your SCSI Scanner driver.

For more information, refer to the SCSI Scanner manual.

8-10. When you can not finish Windows 95/98

If your PC has an USB port and PC Card inserted at the same time, you may not be able to shut down your PC.

- 1. Disable fast shut down. Refer to the Help file for information on how to do it.
- 2. If you can not resolve this issue at the Step 1., change USB resources.
 - a. Start the PC without the CB31U when you can shut down the PC if you remove the CB31U.
 - **b.** When you can not shut down the PC even if you remove the CB31U, start Safe Mode.

You can start Safe Mode by pressing the **F8** key at boot time.

- 3. Click My Computer with the right button and select Properties.
- 4. Click the **Device Manager** tab.
- 5. Double-click on the Universal Serial Bus controllers and Intel 82371AB/EBPCI to USB Universal Host Controller.

System Properties ?X
General Device Manager Hardware Profiles Performance
• View devices by type • View devices by <u>c</u> onnection
Disk drives
Display adapters
Hoppy disk controllers
Hand Monitors
Network adapters
E PCMCIA socket
System devices System devices
Intel 82371AB/EB PCL to LISB Liniversal Host Controller
USB Root Hub
USB Storage Adapter
Properties Refresh Remove Print
OK Cancel

6. Select the Resources tab and remove the check mark at the Use automatic settings. And double-

click Input/Output Range.

Intel 82371AB/EB PCI to USB Universal Host Controll 🎦 🔀					
General Advanced Driver Resources					
Intel 82371AB/EB PCI to USB Universal Host Controller					
Use automatic settings					
Setting based on: Basic configuration 0000					
Resource type Setting Interrupt Request 09 Input/Output Range D800 - D81F					
Change Setting					
Conflicting device list:					
No conflicts.					
OK Cancel					

7. Set Value number larger than 1600 by clicking up/down button.

8. Make sure **Conflicting device list** shows **No conflict**.

9. Click OK and restart your PC. If a warning message box appears, just click OK.and restart your PC.

Edit Input/Output Range					
Enter the input/output range you would like to set for this device.					
You may either enter a specific range and the nearest valid range will be selected automatically, or you may select a range using the arrows.					
⊻alue: 1600 • 161F					
Conflict information The setting you have chosen does not conflict with any other devices.					
No devices are conflicting.					
OK Cancel					

8-11. Slow access to Ultra SCSI hard disk

Access to the Ultra SCSI hard disk is slower than that to the Fast SCSI hard disk

Access speed depends on the computer. Try to uncheck **Command Queuing on the SCSI Configuration Utility**.

8-12. When I can not detect a SCSI Scanner on Windows 2000/Xp

When I try to start Scanner software, I get an error saying Failed to detect the SCSI Scanner.

You need to install ASPI manager for Windows 2000/Xp. To install it, log in as an administrator or same level user.

- 1. Insert the CD-ROM which comes with the CB31U to PC.
- 2. Open My Computer and double-click the CD-ROM icon.
- 3. Double-click the **aspi32** folder.
- 4. Click the WNASPI32.INF with the right button and select Install.

If you can not install it with this procedure, copy the **WNASPI32.DLL** in the **aspi32** folder to the folder named **WINNT\SYSTEM32**.

5. Remove the floppy disk from the PC.

When you want to uninstall it, follow the steps through.

- 1. Start Add/Remove programs in the Control Panel.
- 2. Select RATOC WinASPI32 for Windows 2000/NT4.0
- 3. Click the Change/Remove button.

8-13. When you can not assign a drive letter

I can find the device name string in the Device Manager, but the drive icon does not appear in My Computer.

- 1. If your computer is in a network and all the driver letters are full, the drive icon does not appear in **My Computer**. To resolve this issue, remove the Network card and install the CB31U driver.
- 2. If all the drive letters are not full, your CD-ROM drive may be D drive and the drive letter is fixed. In this case, the drive icon does not appear in **My Computer**. To resolve this issue, do not fix the drive letter or assign your CD-ROM to other drive letter than D drive, following the steps below.
 - a. Double-click the Administrative Tools in Control Panel.
 - b. Start Computer Management and select the Disk Management under the Storage.
 - c. Click the CD-ROM drive with the right button and select Change Drive letter and Path.

9. Registration and Tech-Support

9-1. How to Register

We highly recommend to register yourself as our customer through our on-line registration.

- 1. On the Internet, access our site (http://www.ratocsystems.com/english/)
- 2. Follow window menu guide to register.
- 3. Fill out and submit the registration form.

9-2. Driver Update and Support

-Driver Update-

The latest driver and utility are subject to change for improvement or bug fix. You can download the latest version from our web site. (http://www.ratocsystems.com/english/)

-Technical Support-

You can get a Tech support from RATOC at the following Open 9:30AM-5:00PM(PST) Mon-Fri(except holidays)

RATOC Systems, International Tech support

2000 Wyatt drive

Suite 9

Santa Clara, CA 95054

Phone: 408-986-9040

FAX: 408-986-9042

E-mail: http://www.ratocsystems.com/english/contact/support.html

NOTE:

Please include the following information to help us to assist you in the event of a problem:

- •Our product name, serial number, and product description
- •Host Computer Name, Windows version
- •Utility/Driver version

10. Options

Optinal SCSI cables are available (sold separately) at the web site:

http://www.firewireshop.com

-HD 50P SCSI-II cable (2 feet)

-Centronics 50P SCSI-I cable (2 feet)

-DB 25P SCSI-I cable (2 feet)

-HD 50P female to Centronics 50P male adapter

If you have any questions about these options, contact to:

RATOC Systems Insternational, TEL : (408)986-9040 FAX: (408)986-9042 E-mail: http://www.ratocsystems.com/english/contact/sales.html

11. Specifications

Specifications of the CB31U

SCSI Interface

•Ultra SCSI (FAST-20)

•Single ended

SCSI PC Card

•PC Card Standard Compliant CardBus (Type II)

Data Transfer Rate

•Up to 20MB/sec with Ultra SCSI devices (synchronous)

•Up to 10MB/sec with SCSI-II devices (synchronous)

•Up to 132MB/sec between host and CB31

Power Consumption

•Voltage +3.3V (Supplied from PC Card slot)

•300mA(TYP) - at Reading/Writing

•130mA (TYP) - at Idling

•77mA (TYP) - at Power save mode

Termination Power

•Internal active termination embedded

Interrupt/I/O address

•Use IRQ assigned by CardBus Controller

Operation Temperature 32°F to 131°F (0°C to 55°C)

Storage Temperature

-4°F to 158°F (-20°C to 70°C)

SCSI Cable Connector Pin Assignment

The following figure indicates the pin assignment of the CB31U SCSI cable(PC Card side). The connector uses a Hirose NX30TA-25PAA or compatible connector. Do not use any other SCSI cables than the supplied one.

-	1 / 2 / 3 / 14 15 16	10/11/12/13 23 24 25

PIN	SIGNAL	PIN	SIGNAL
1	REQ	14	GND
2	MSG	15	C/D
3	I/O	16	GND
4	RST	17	ATN
5	ACK	18	GND
6	BSY	19	SEL
7	GND	20	DBP
8	DB0	21	DB1
9	GND	22	DB2
10	DB3	23	DB4
11	DB5	24	GND
12	DB6	25	TERMPWR
13	DB7		

Appendix

Trademarks

- -Windows and MS-DOS are registered trademarks of Microsoft Corporation.
- -AdvanSys is a registered trademark of ConnectCom Solutions, Inc.
- -BIOS and miniport driver are copyrighted by ConnectCom Solutions, Inc.
- -Other brand and product names may be registered trademarks or trademarks of their respective holders.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- (1) Reorient or relocate the receiving antenna.
- (2) Increase the separation between the equipment and receiver.
- (3) Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- (4) Consult the dealer or an experienced radio/TV technician for help.

Shielded cables and certified Class B peripherals must be used on this product. Using unshielded cables or uncertified peripherals may result in this unit not complying with FCC Rules Part 15.

Changes or modifications not expressly approved by the party responsible for compliance may result in this unit not complying with FCC Rules Part 15.

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